

FIG. 1A

FIG. 2

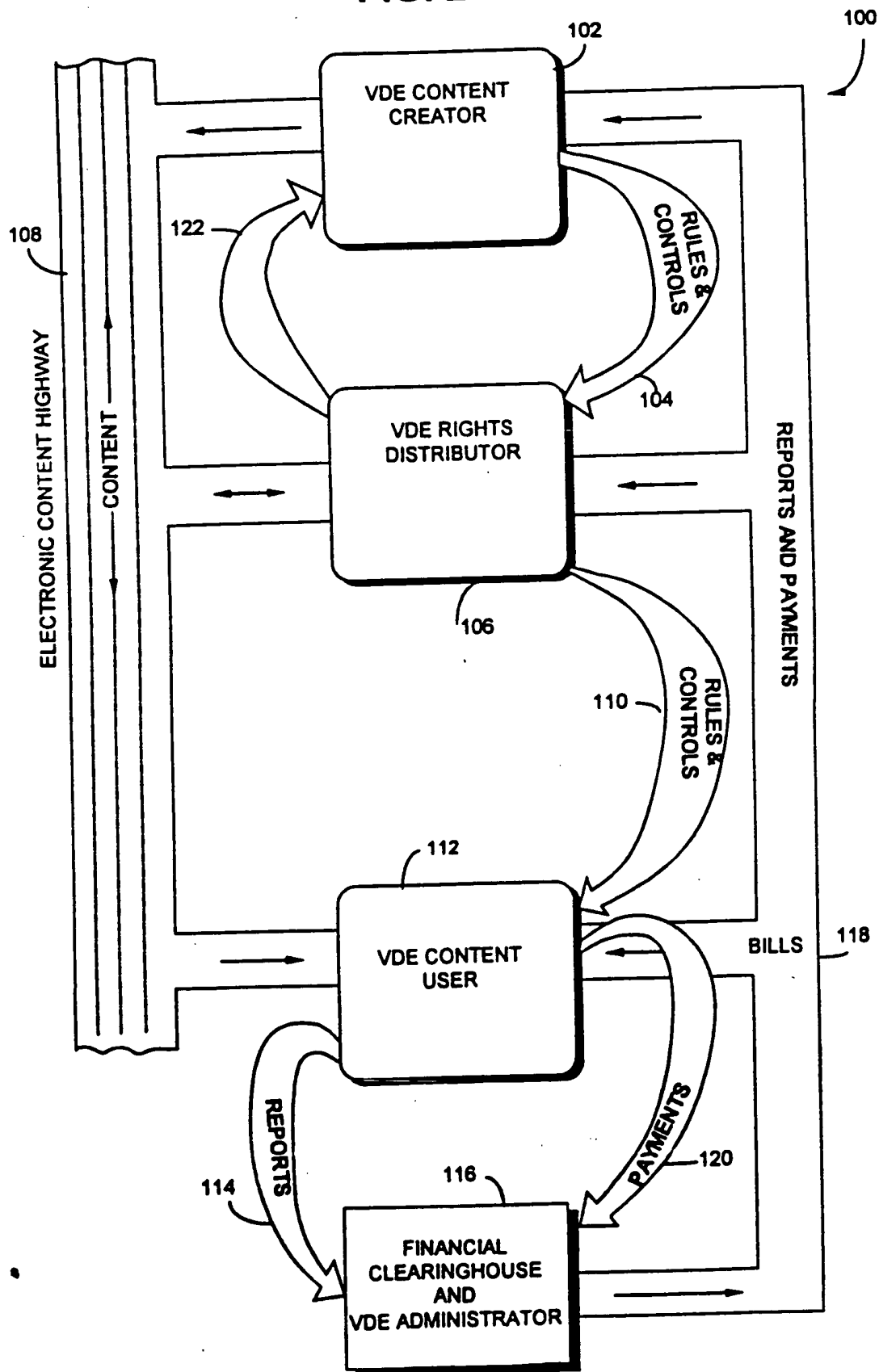


FIG. 2A

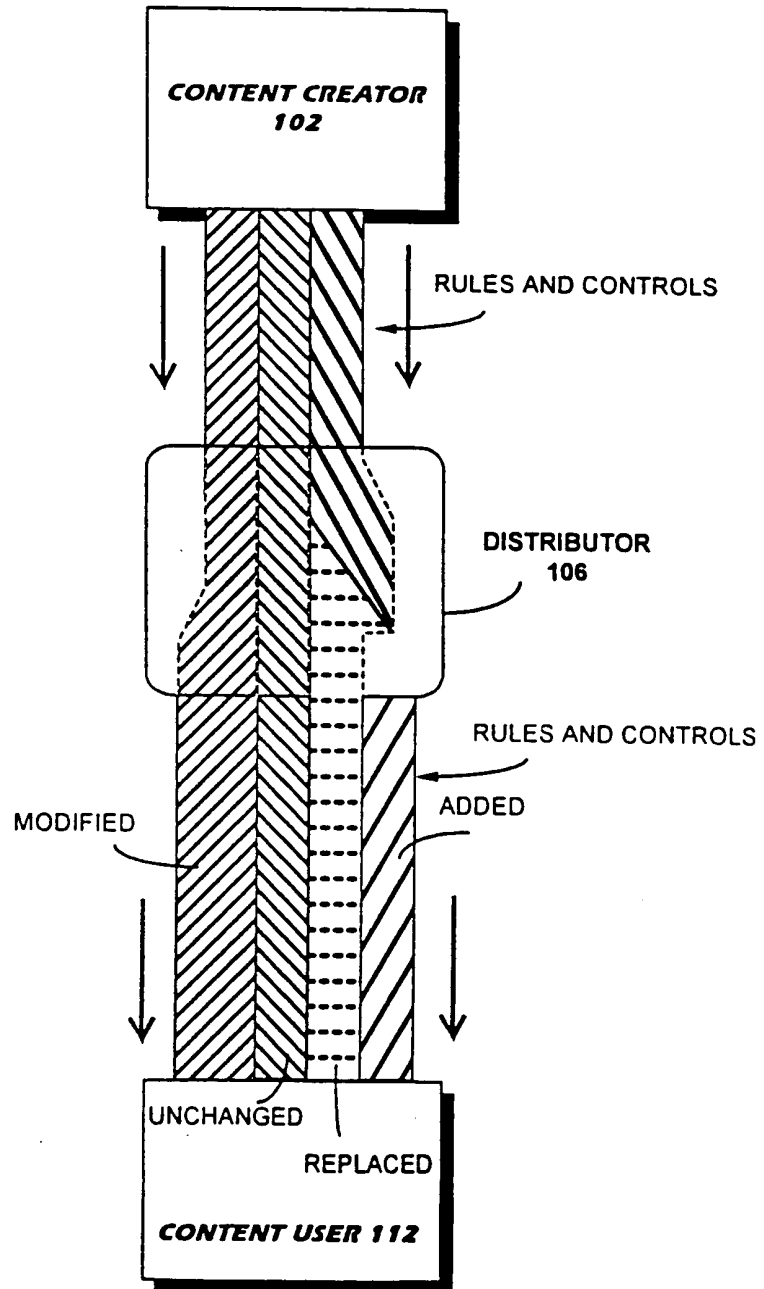
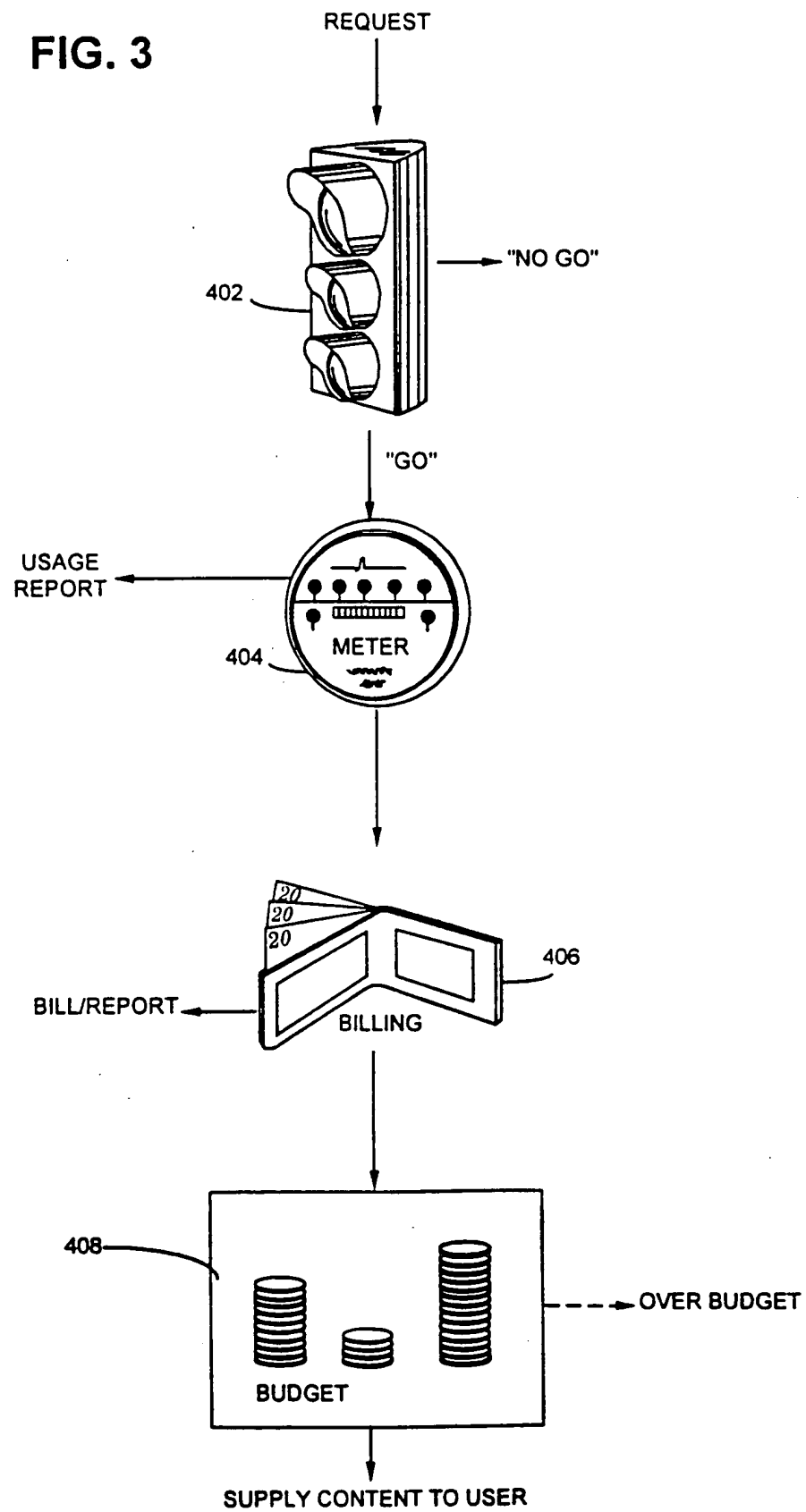


FIG. 3



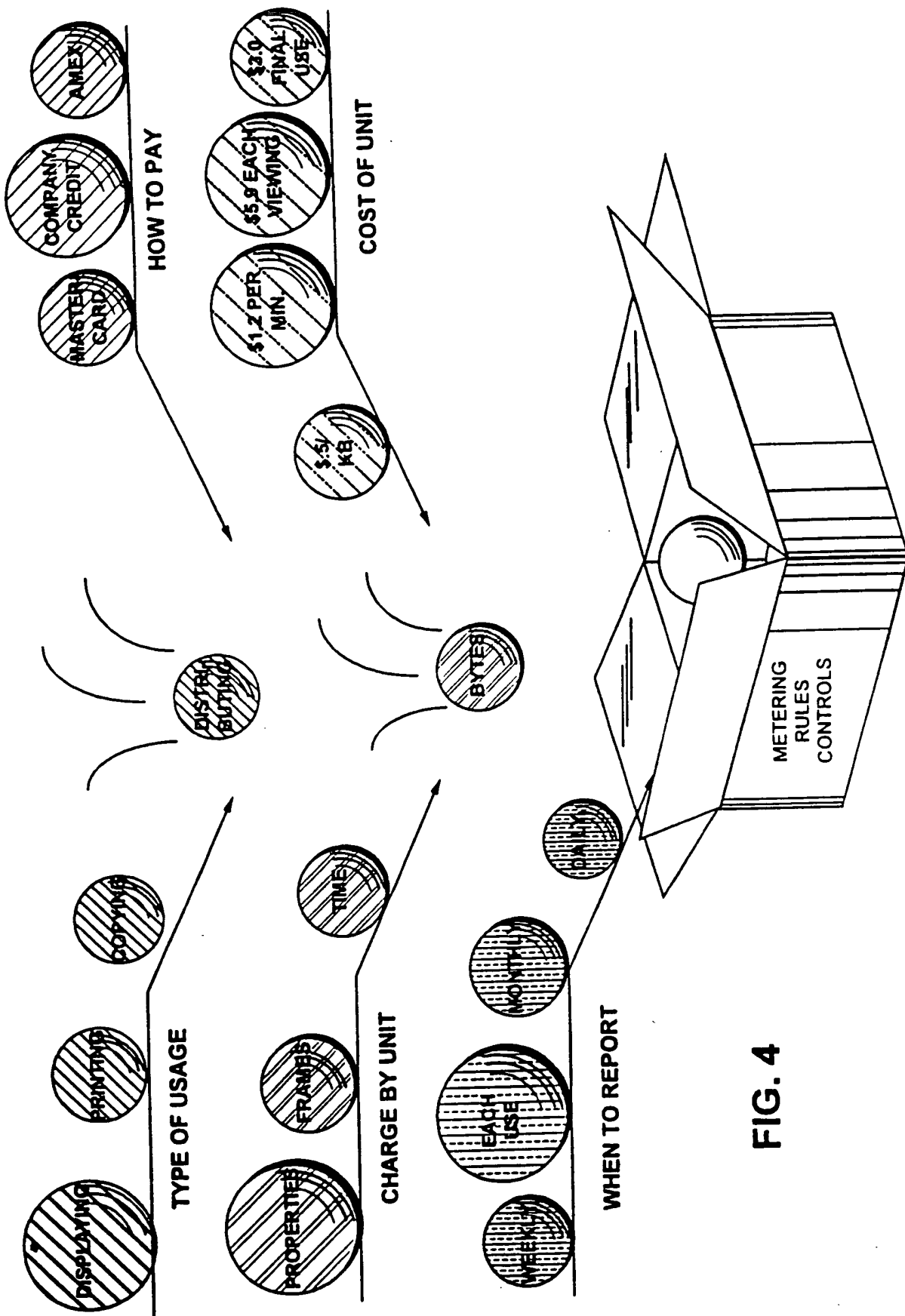


FIG. 4

FIG. 5A

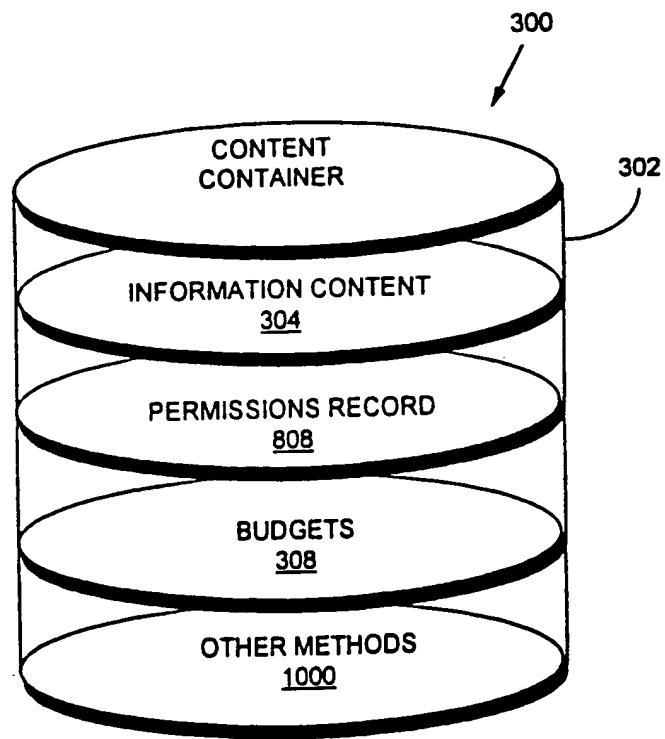


FIG. 5B

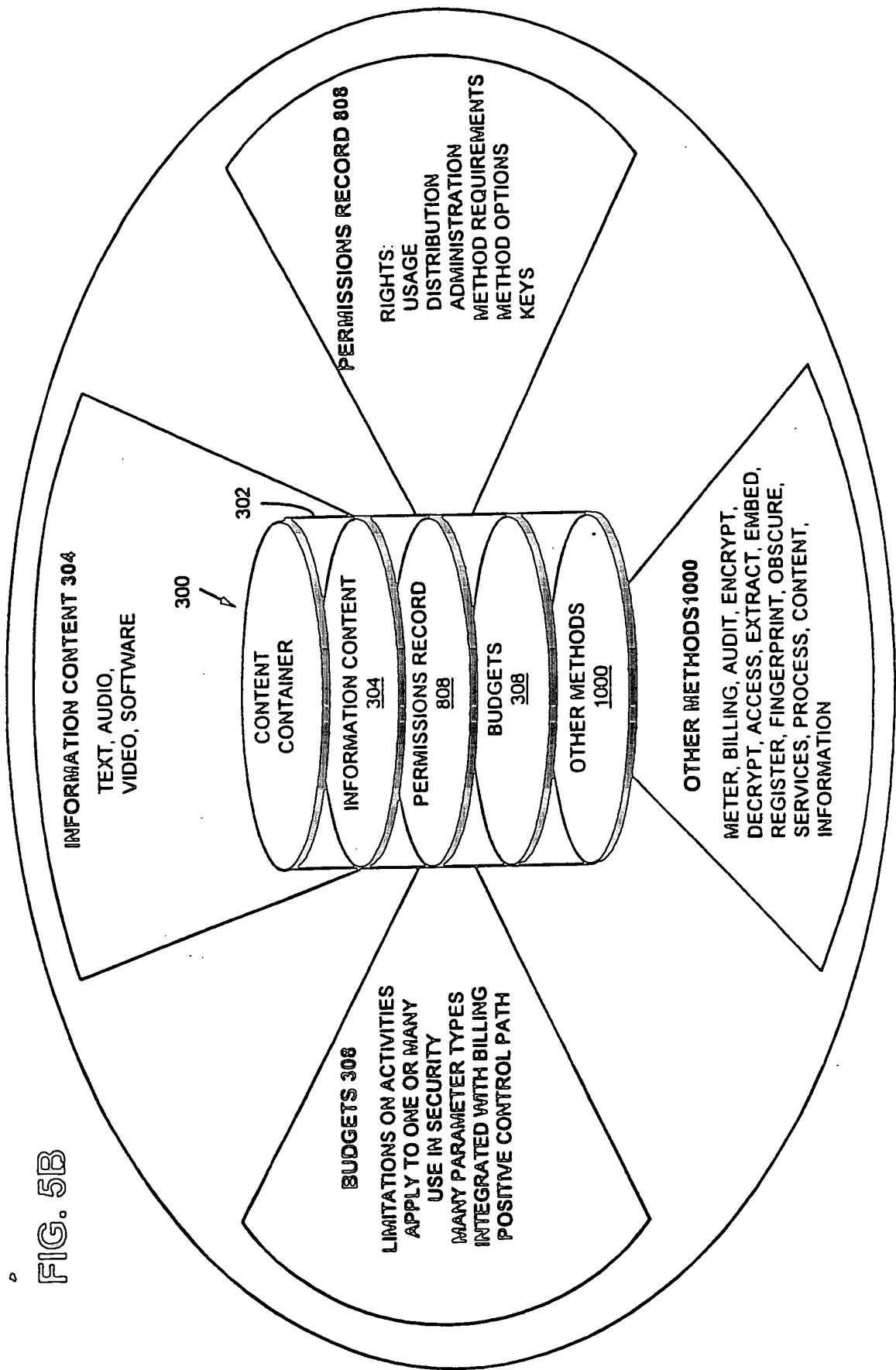


FIG. 6

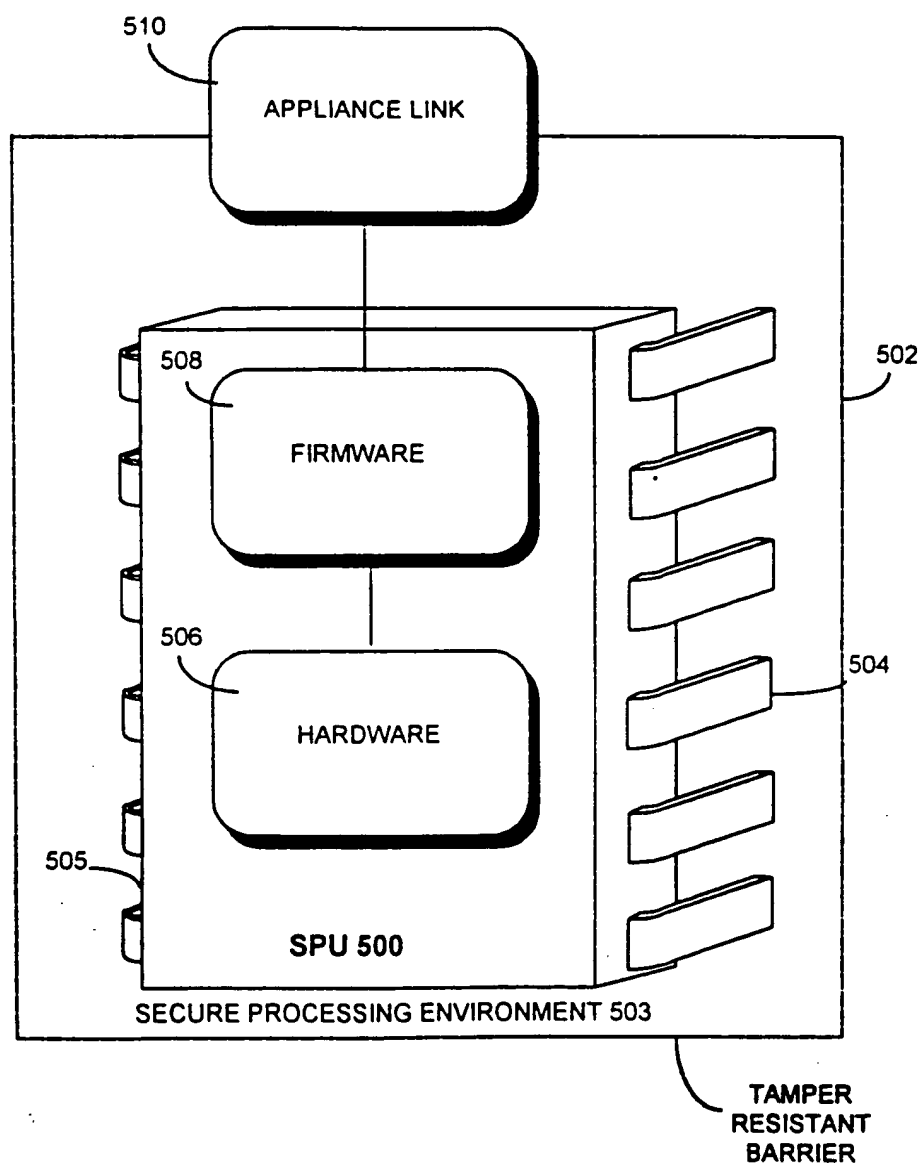


FIG. 7

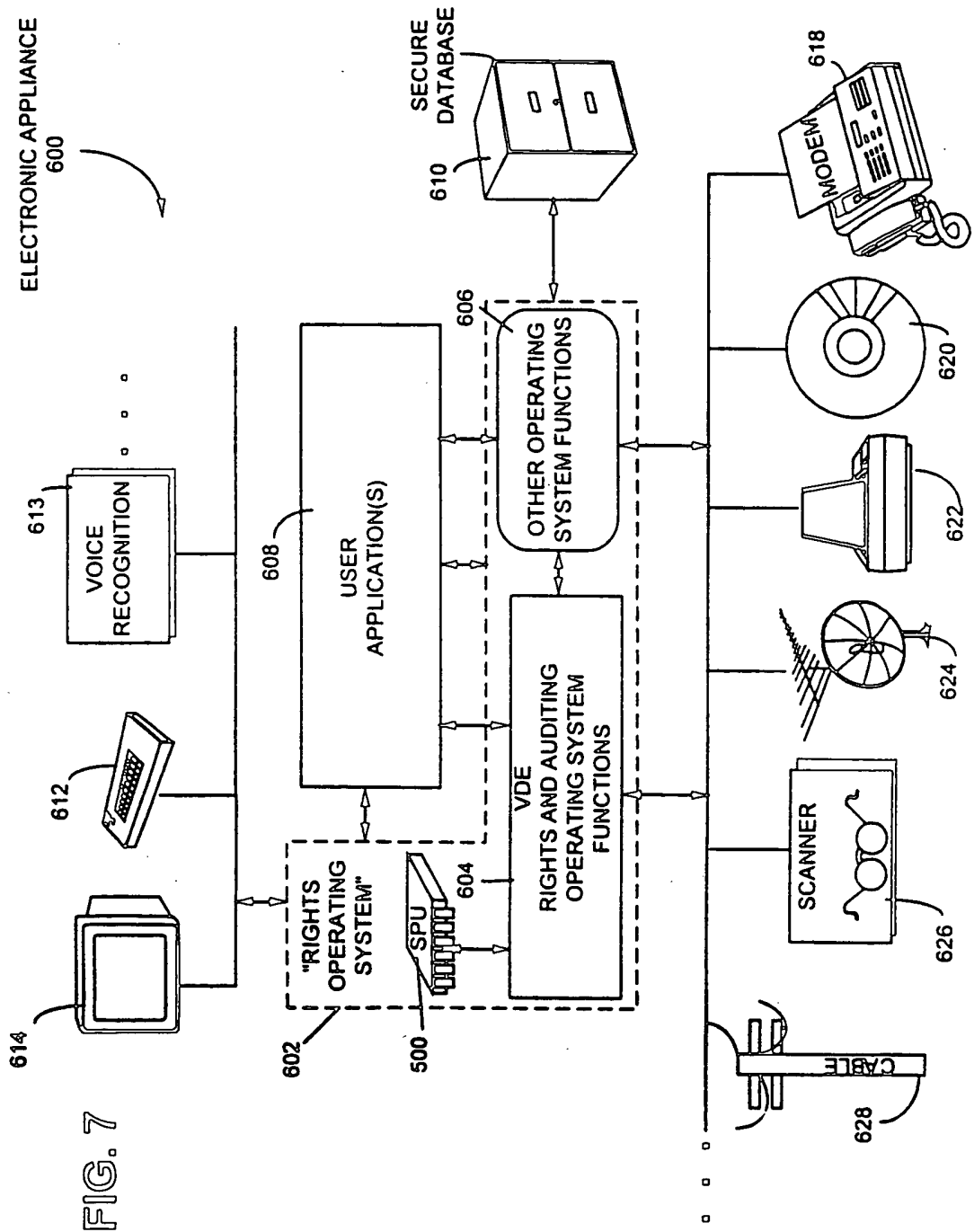
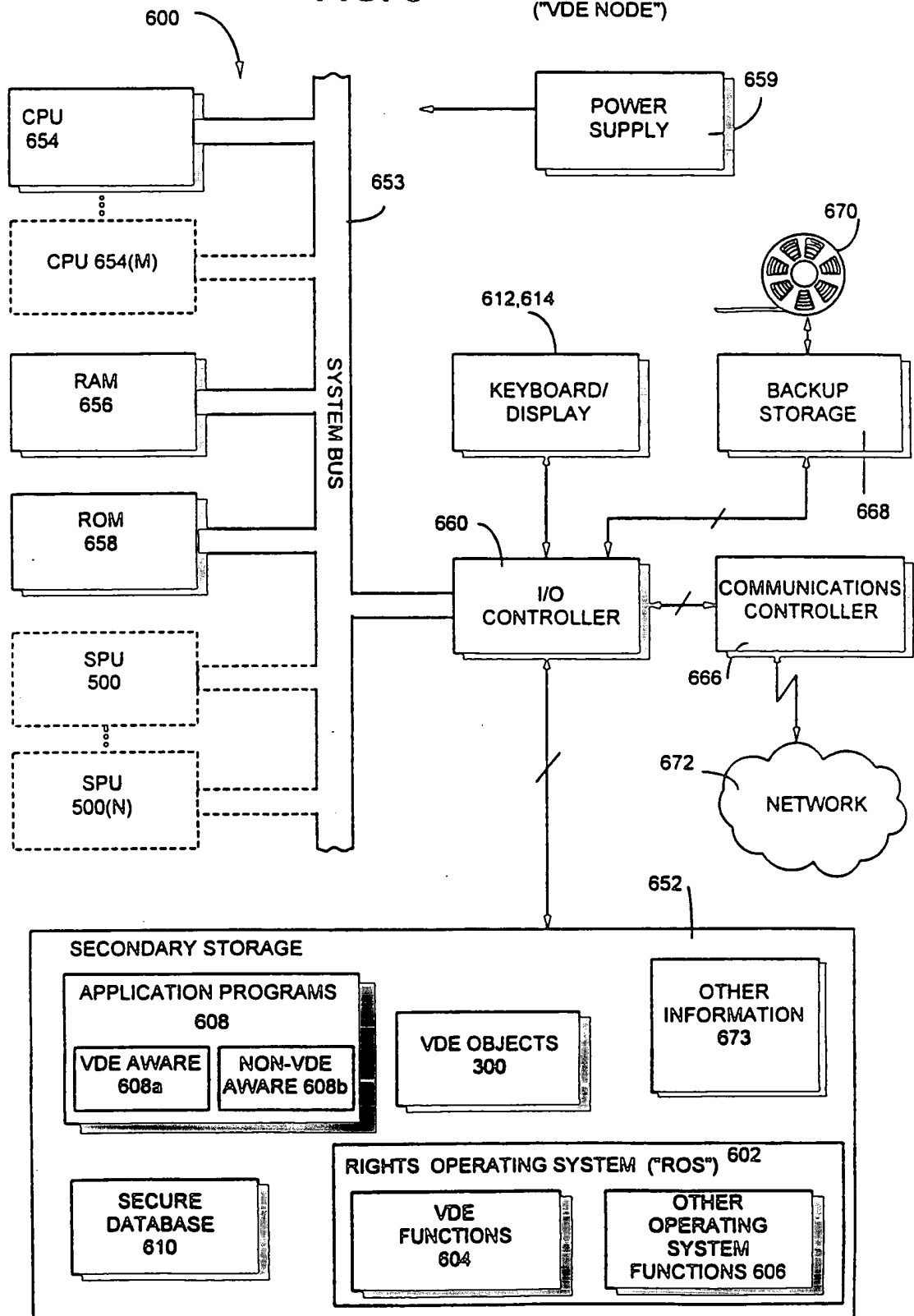


FIG. 8 ELECTRONIC APPLIANCE 600
("VDE NODE")



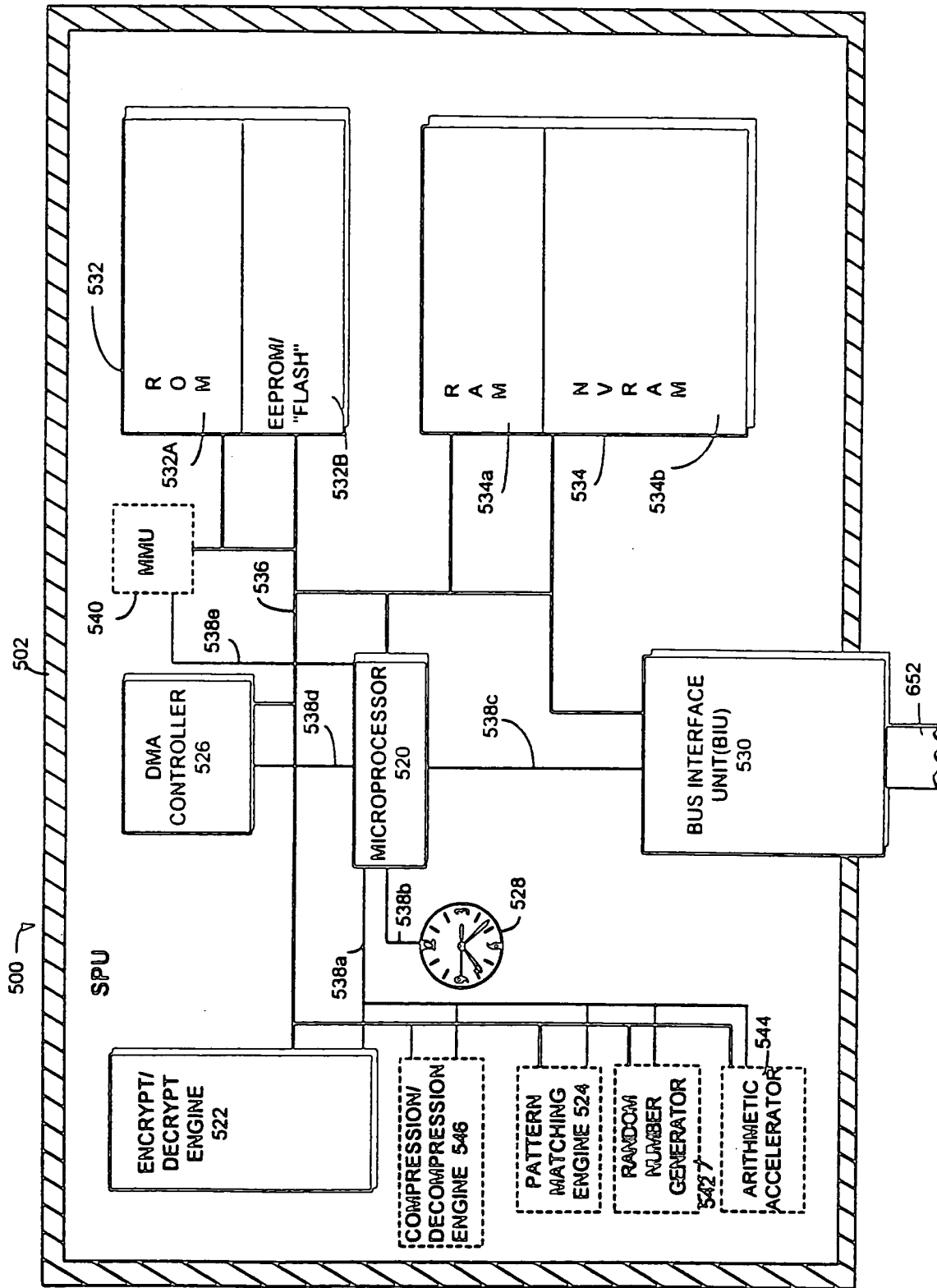


FIG. 9

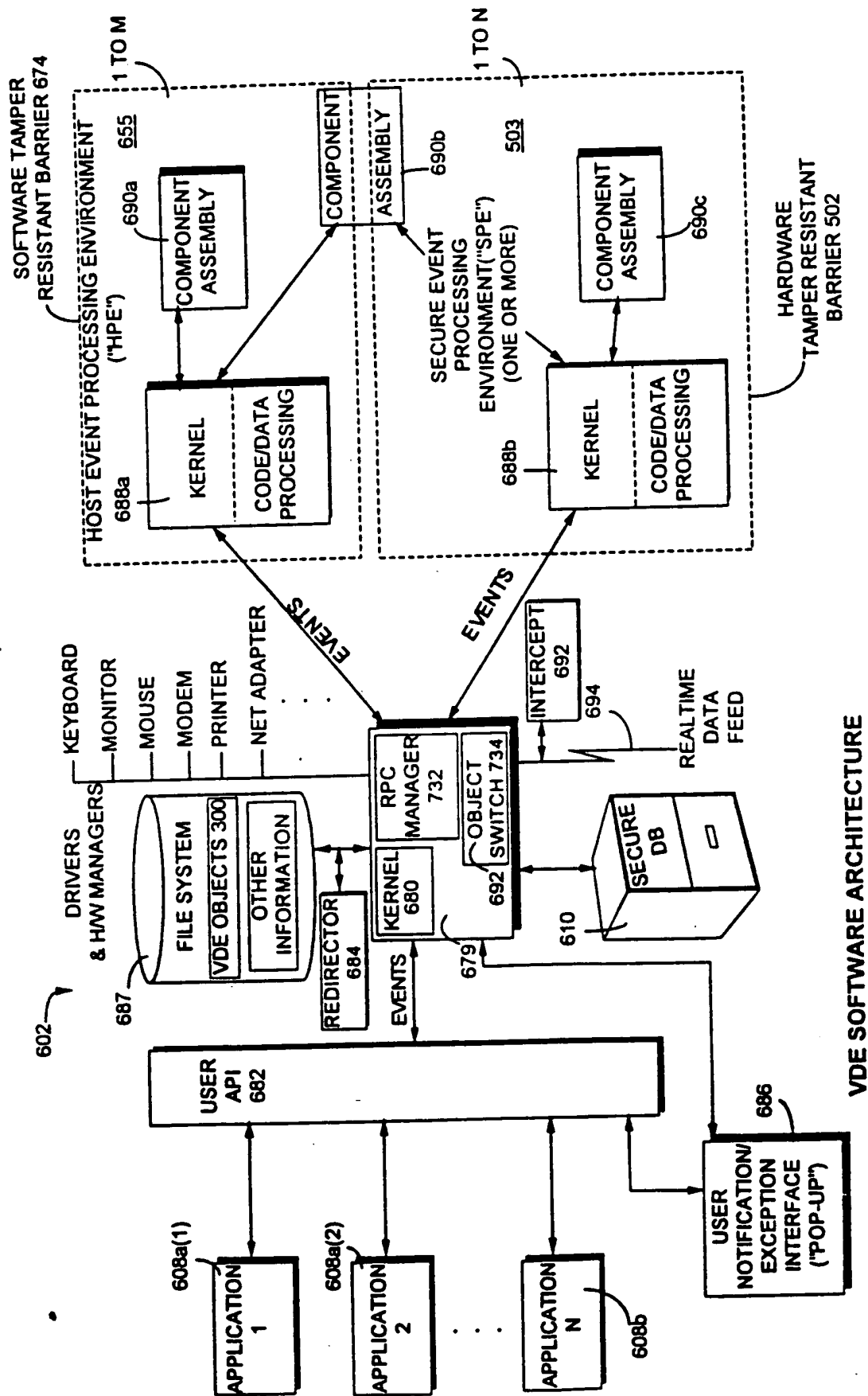


FIG. 10

FIG. 11C

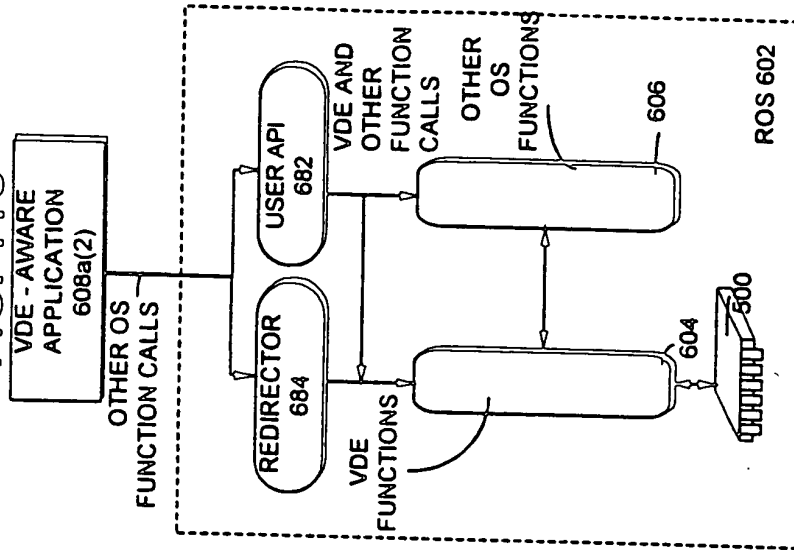


FIG. 11B

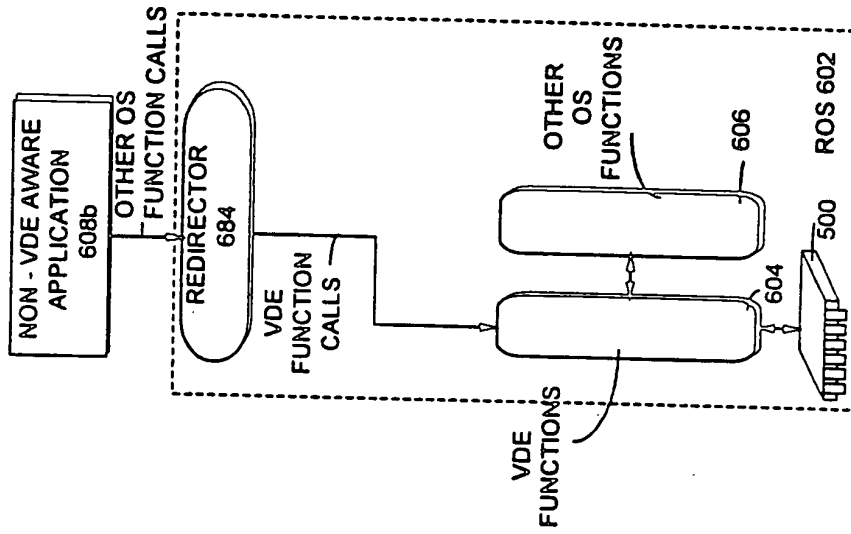
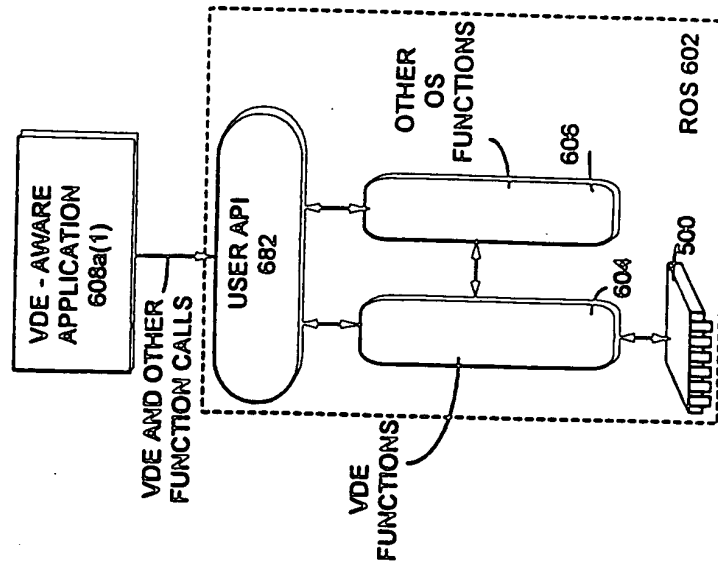
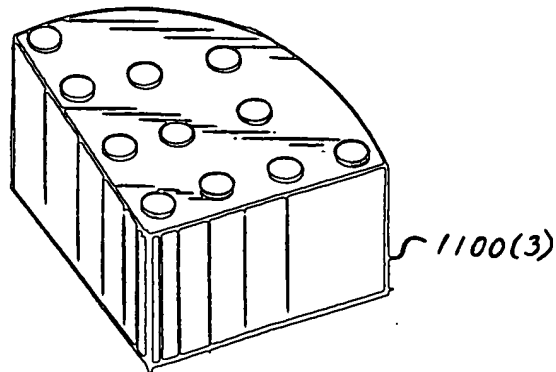
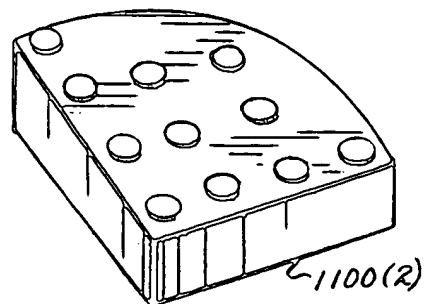
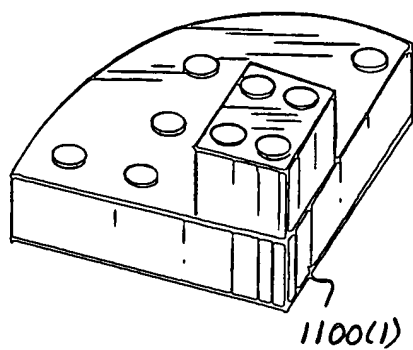
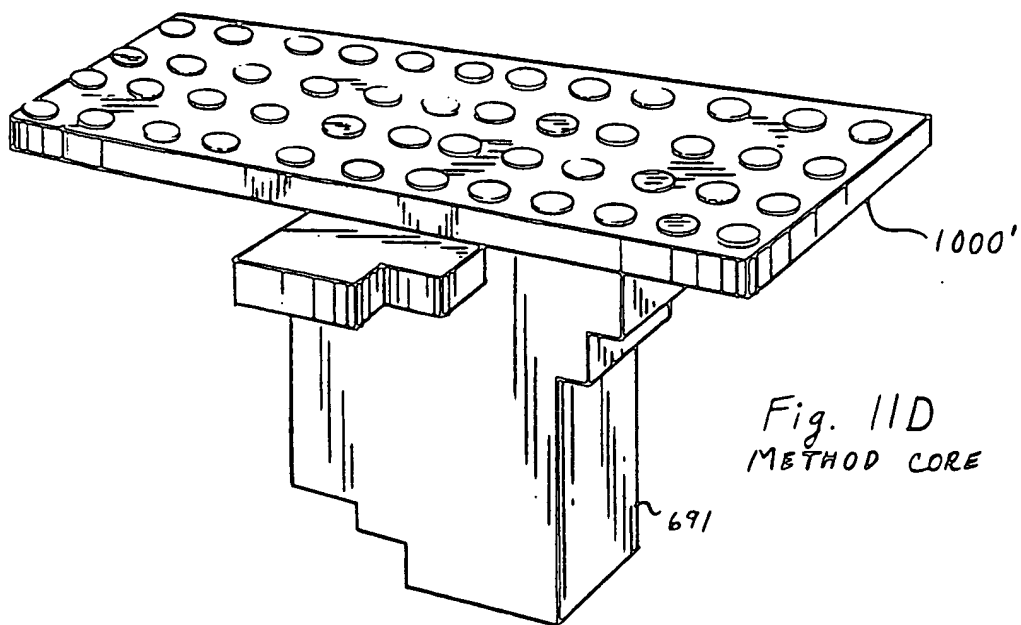


FIG. 11A





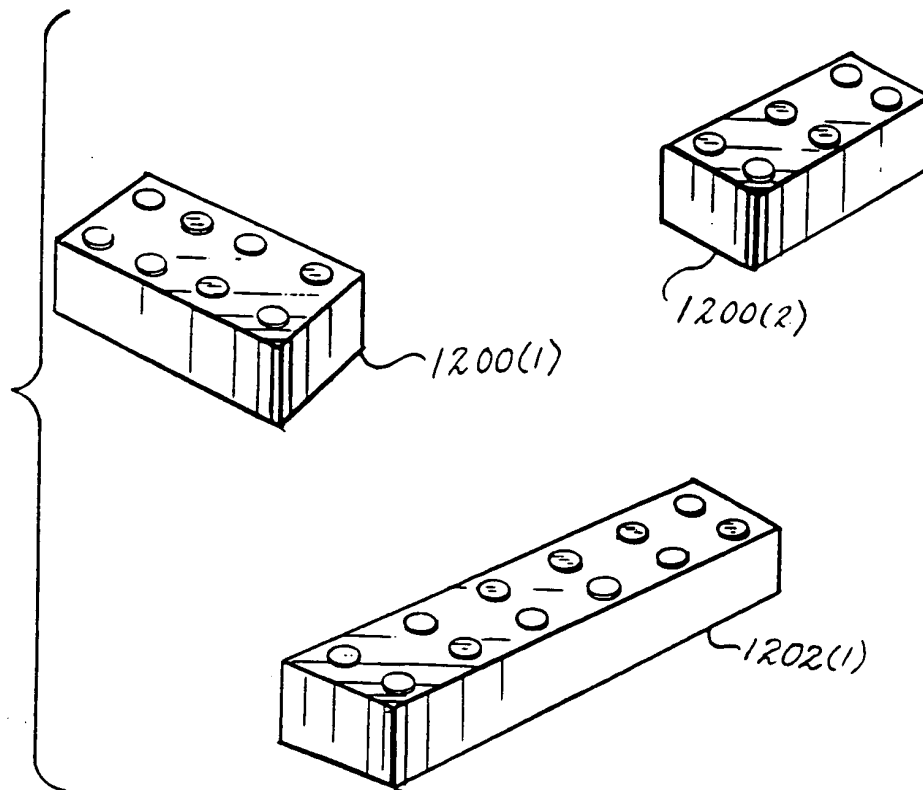
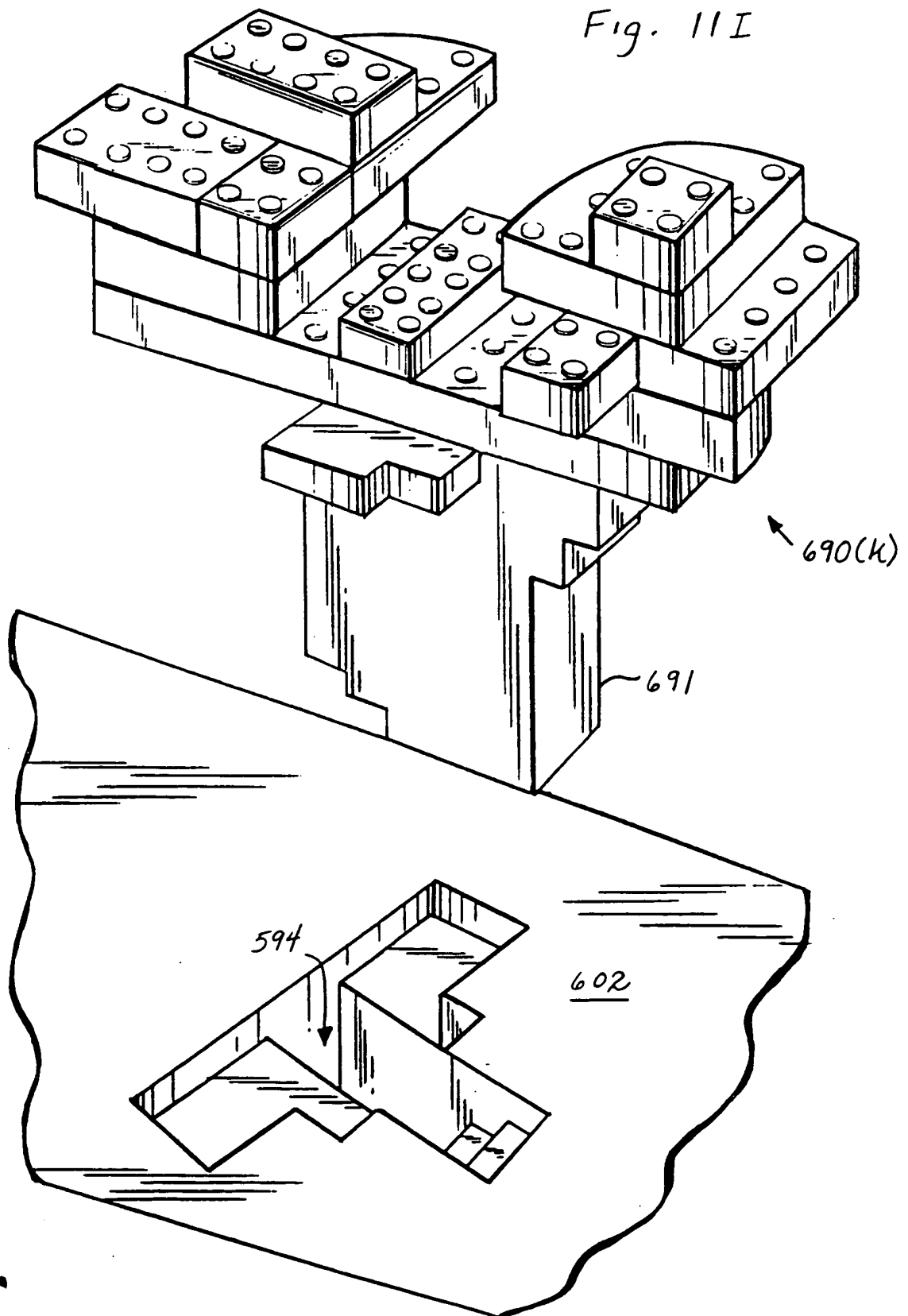


Fig. 11H
DATA STRUCTURES

Fig. 11I



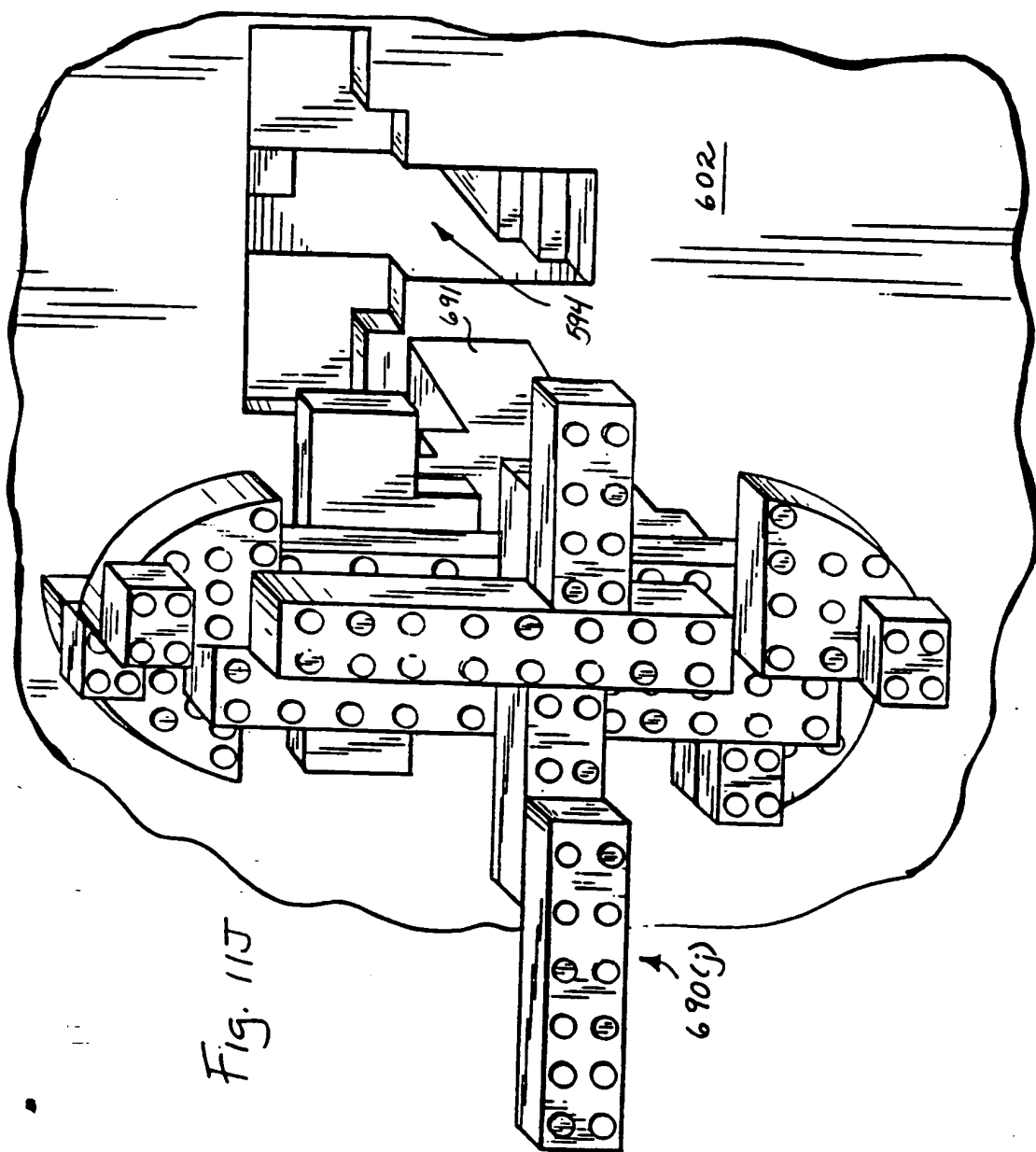


Fig. 11J

FIG. 12

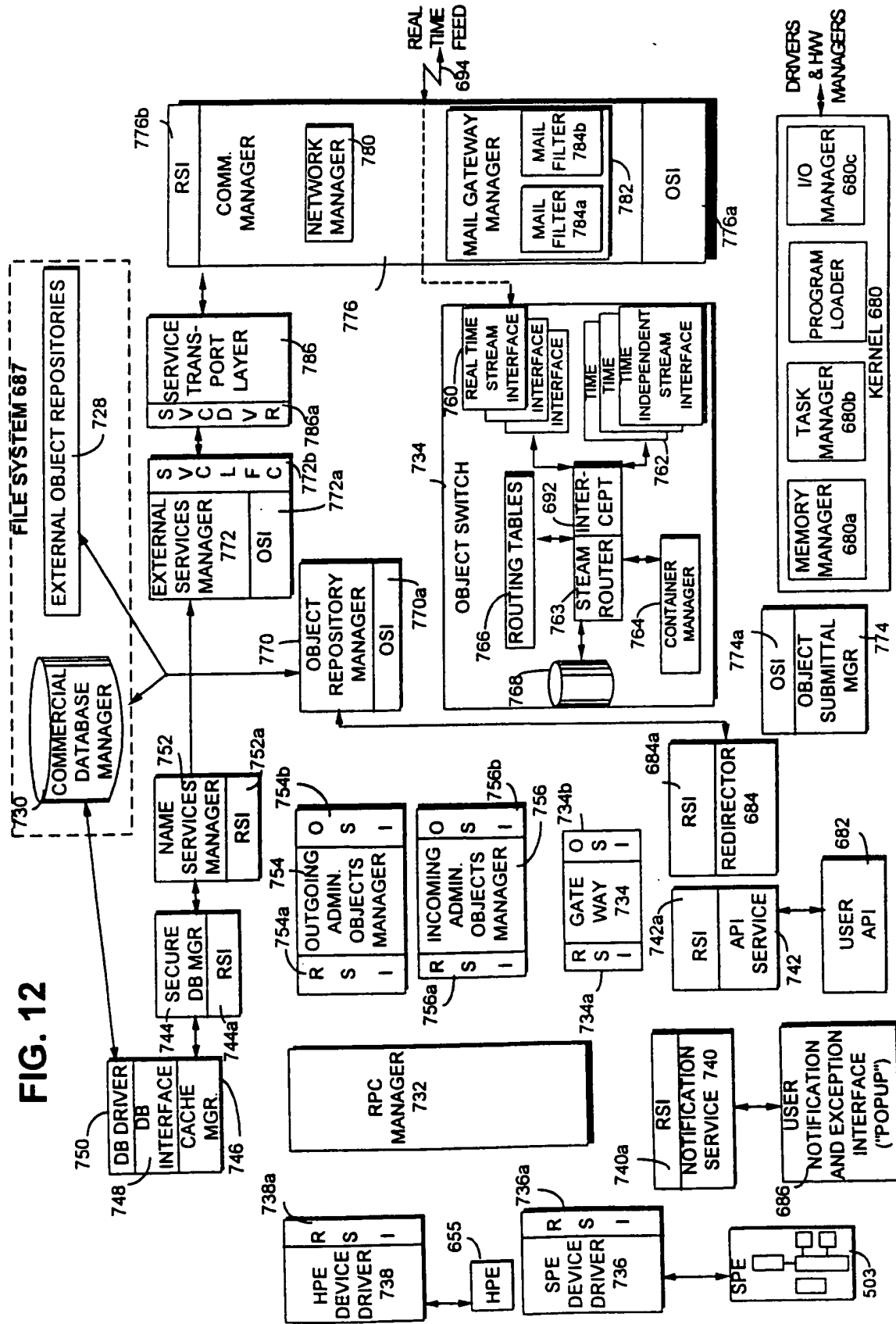


FIG. 12A
OBJECT CREATION

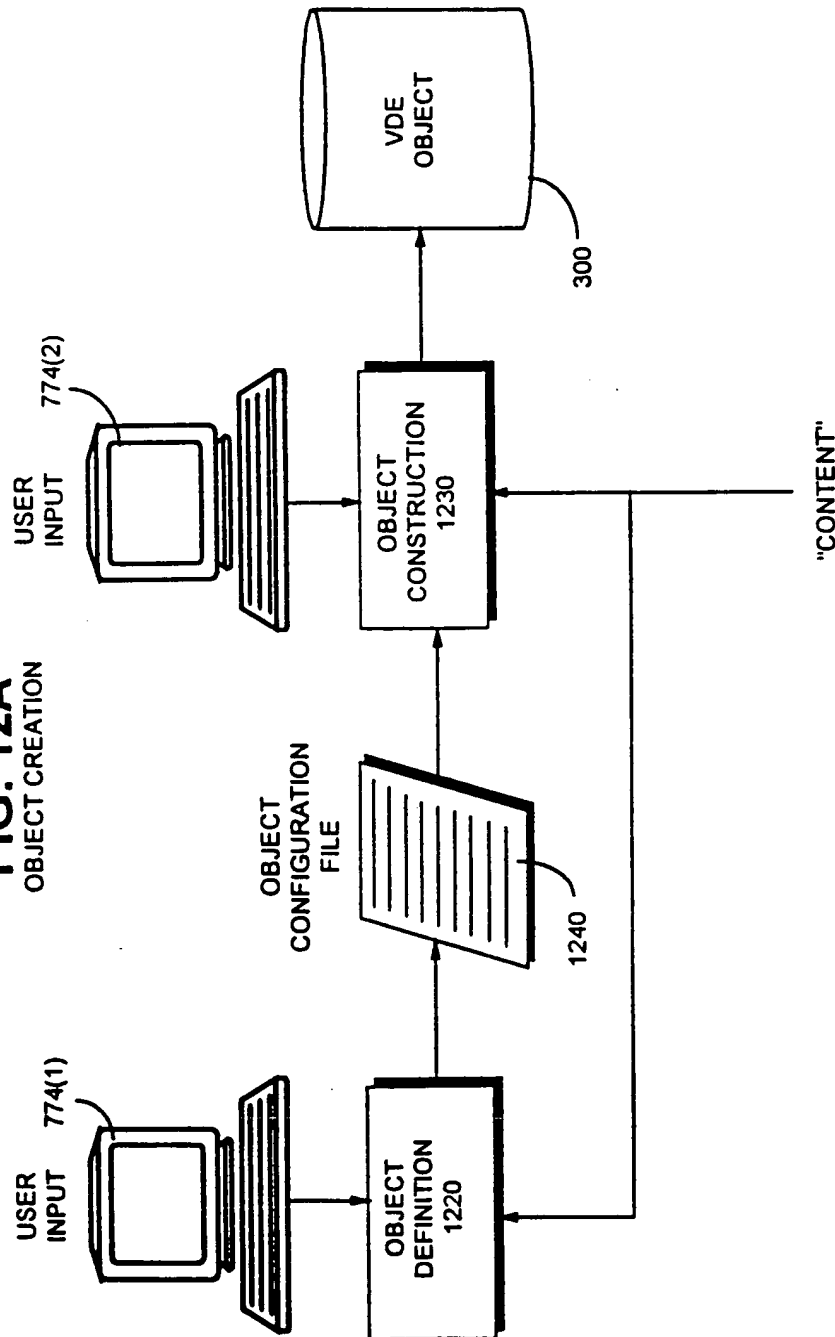


FIG. 13

PROTECTED PROCESSING ENVIRONMENT 650

503, 655

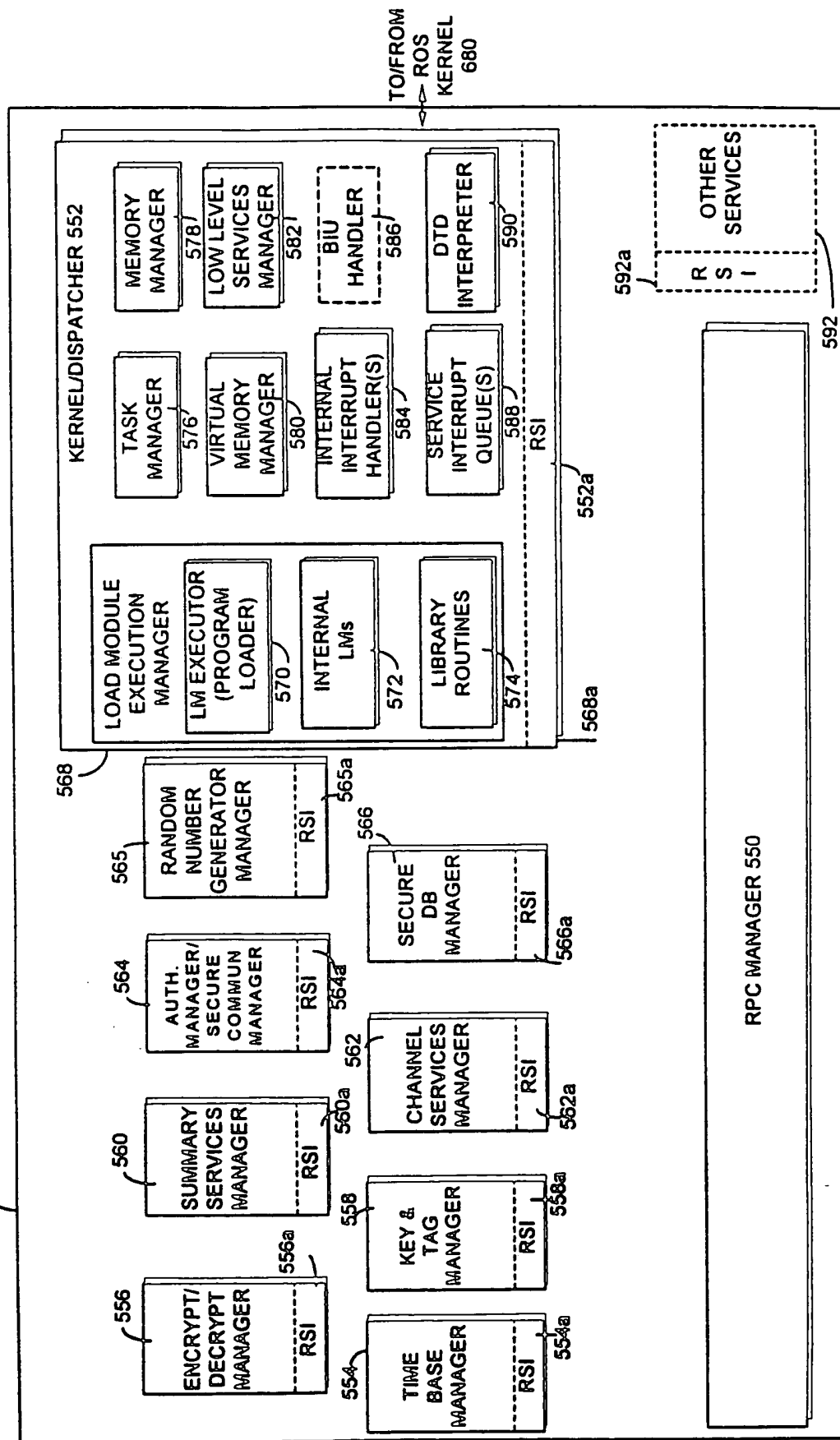


FIG. 14B

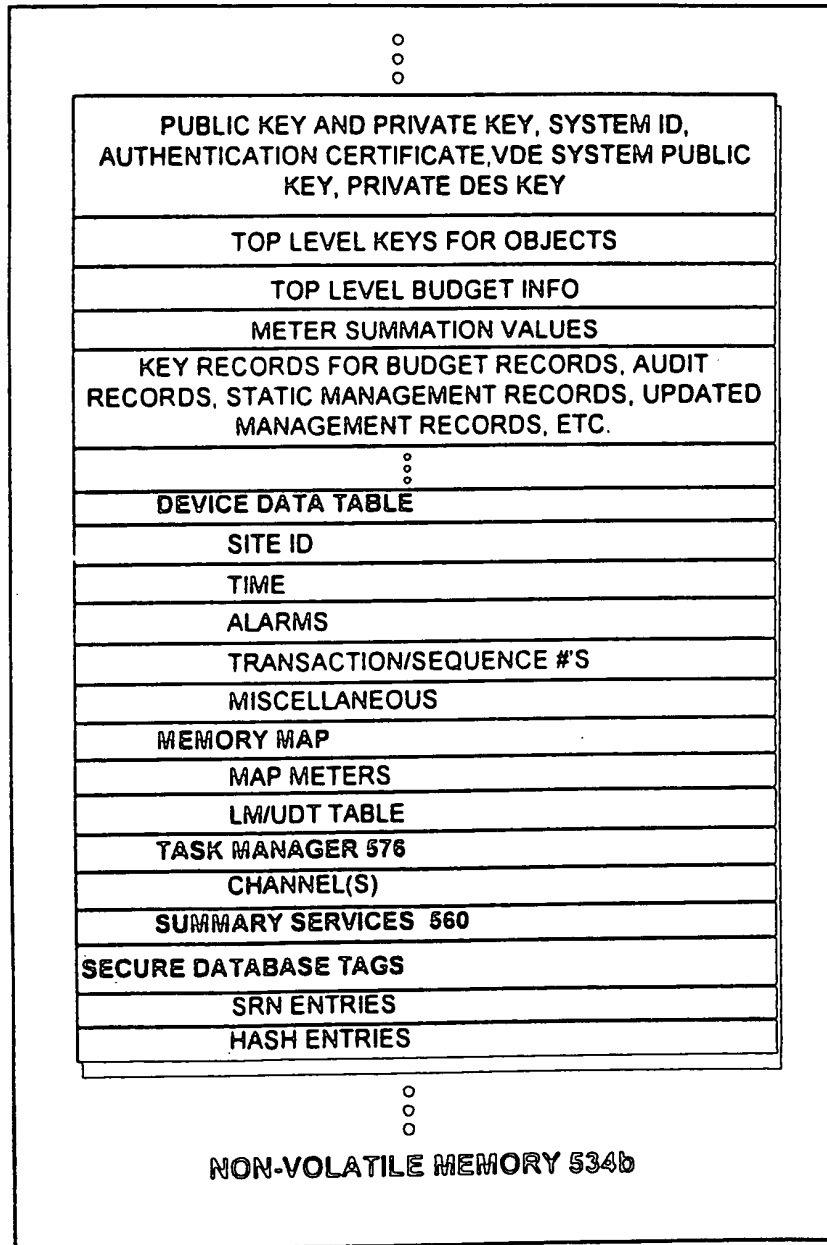
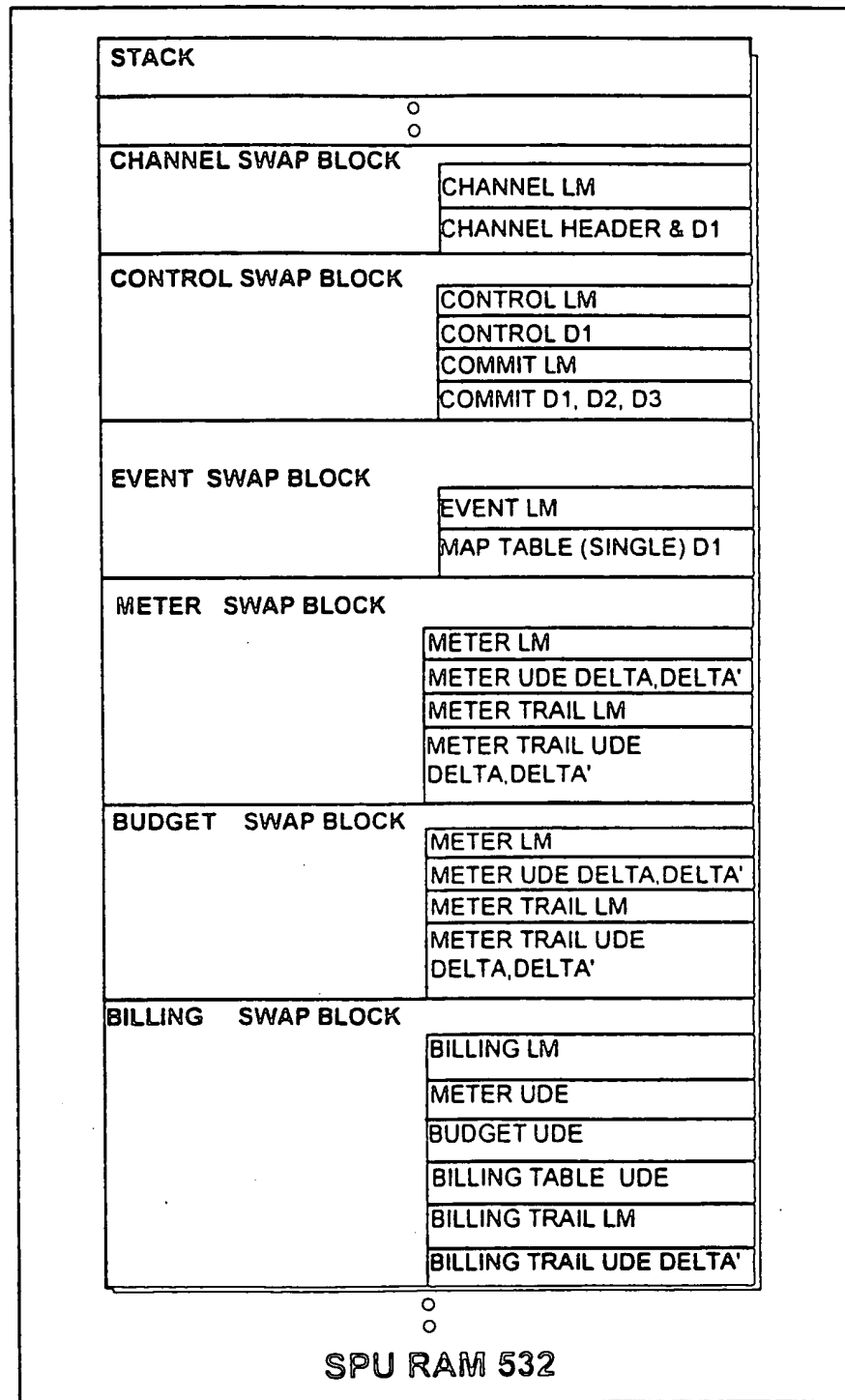


FIG. 14C



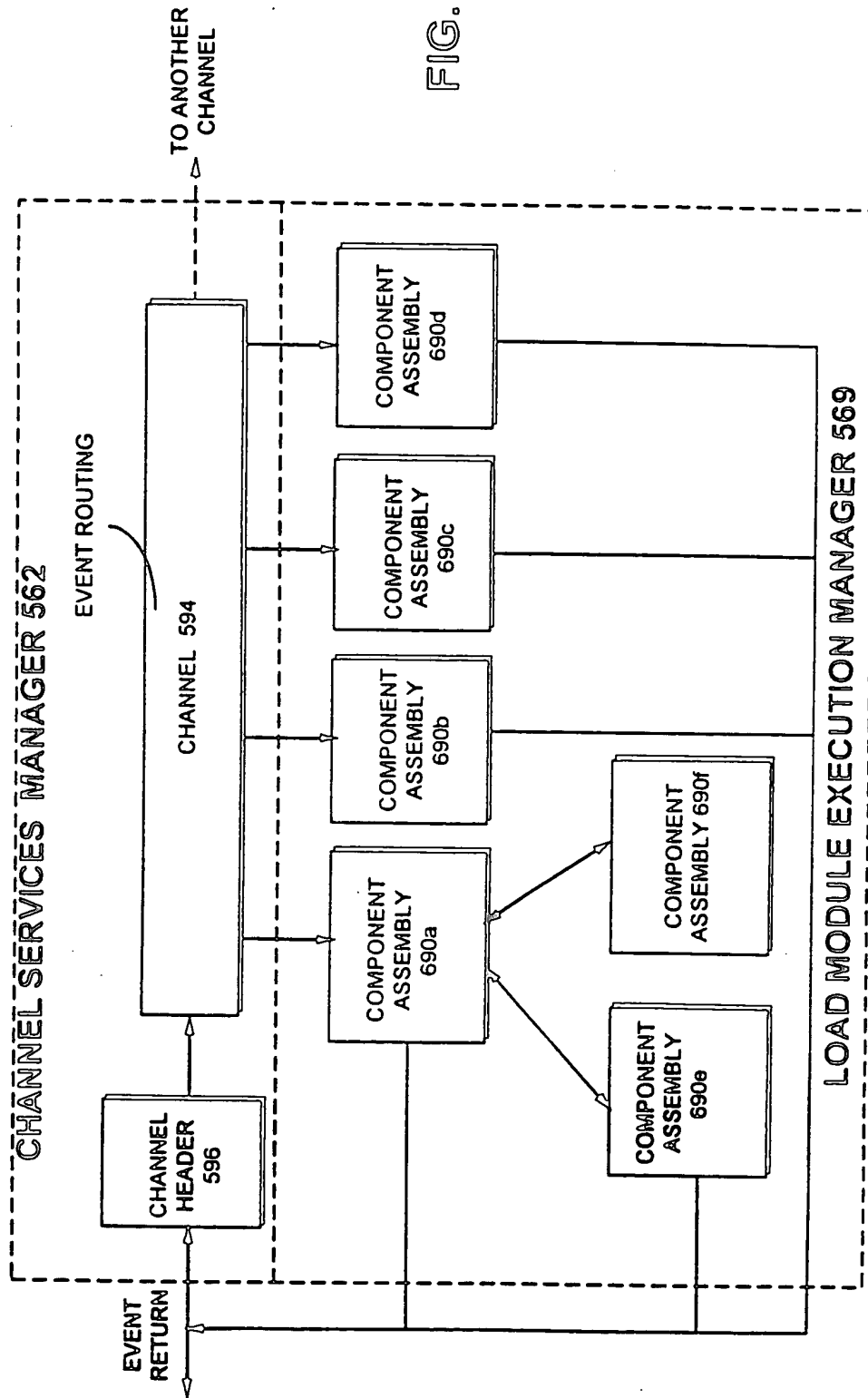


FIG. 15

FIG. 15A

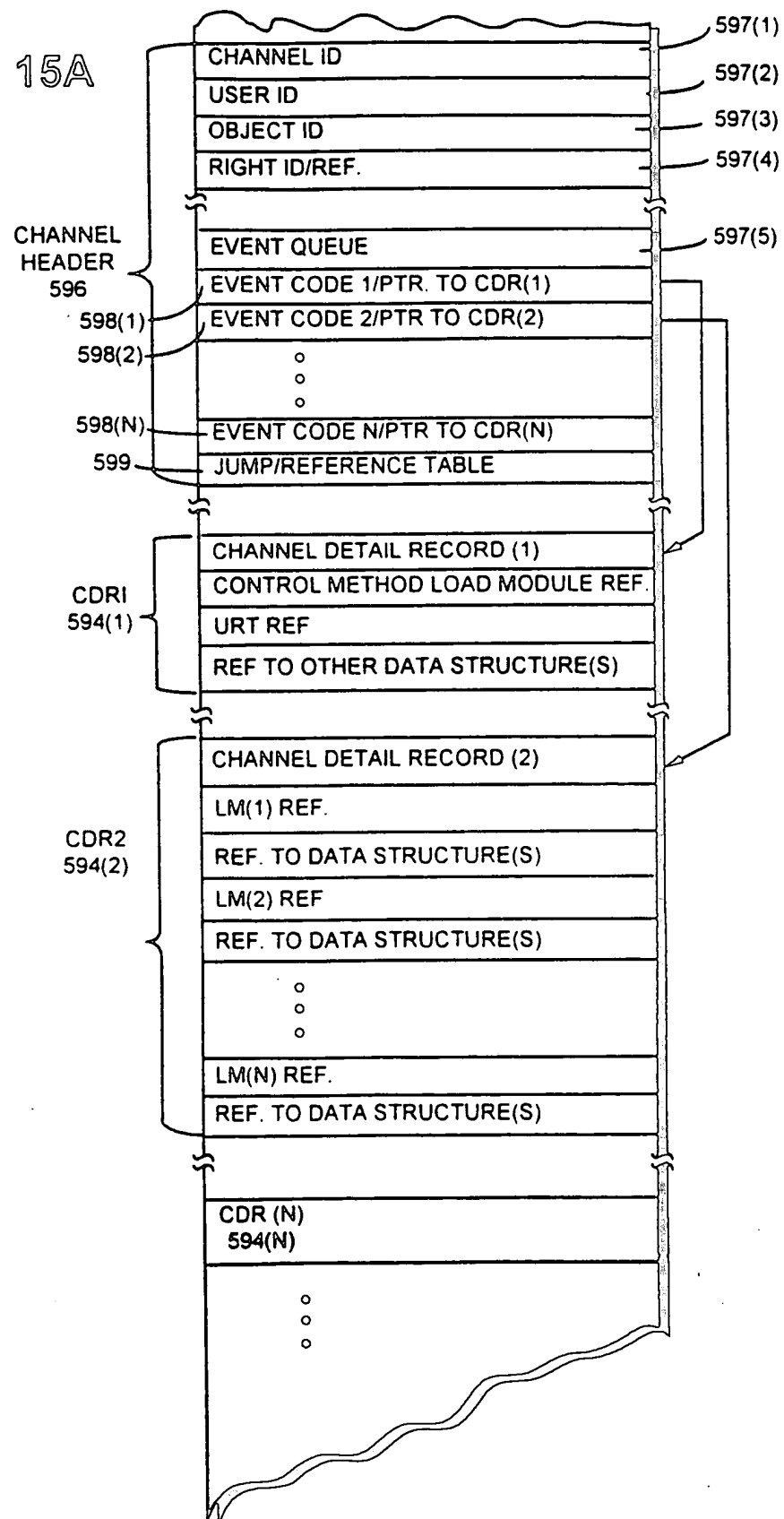


FIG. 15B

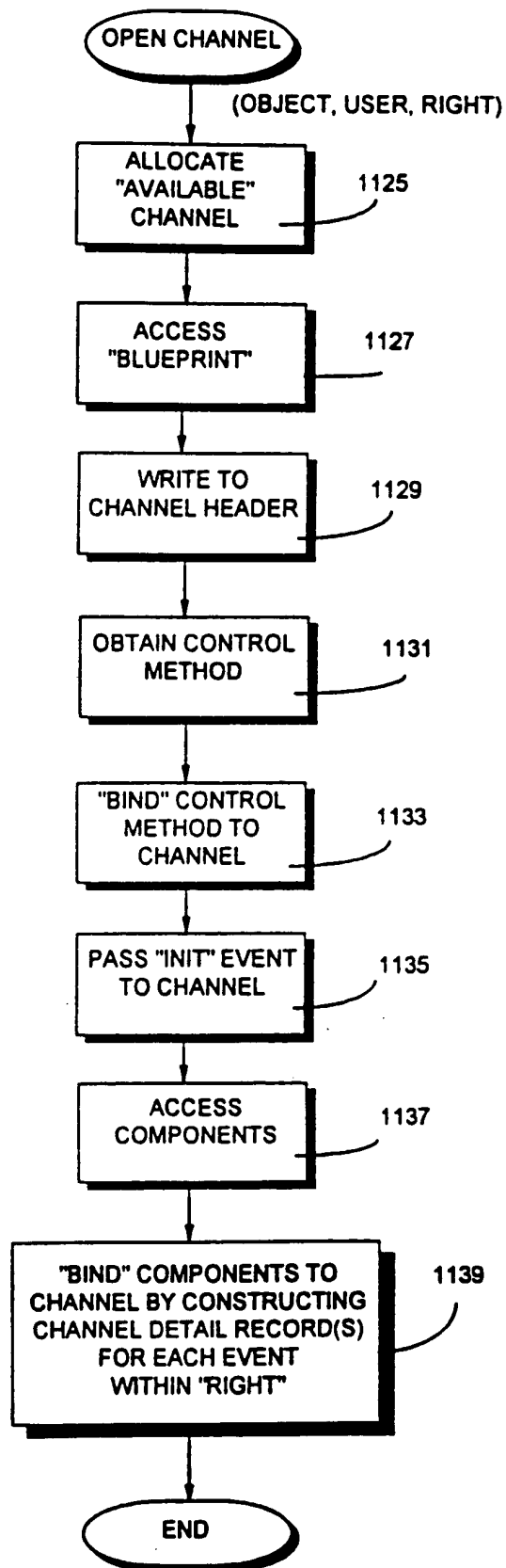
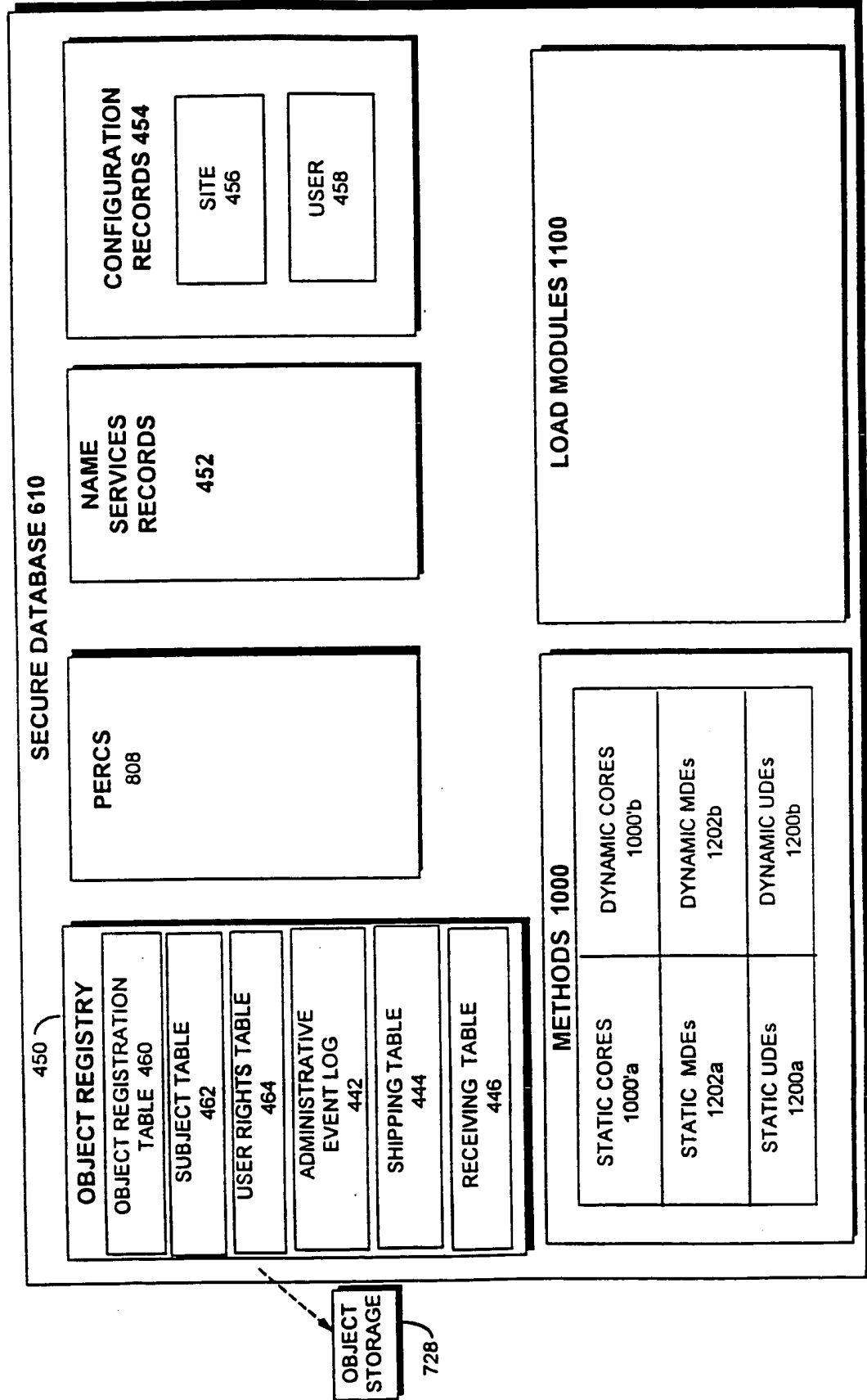
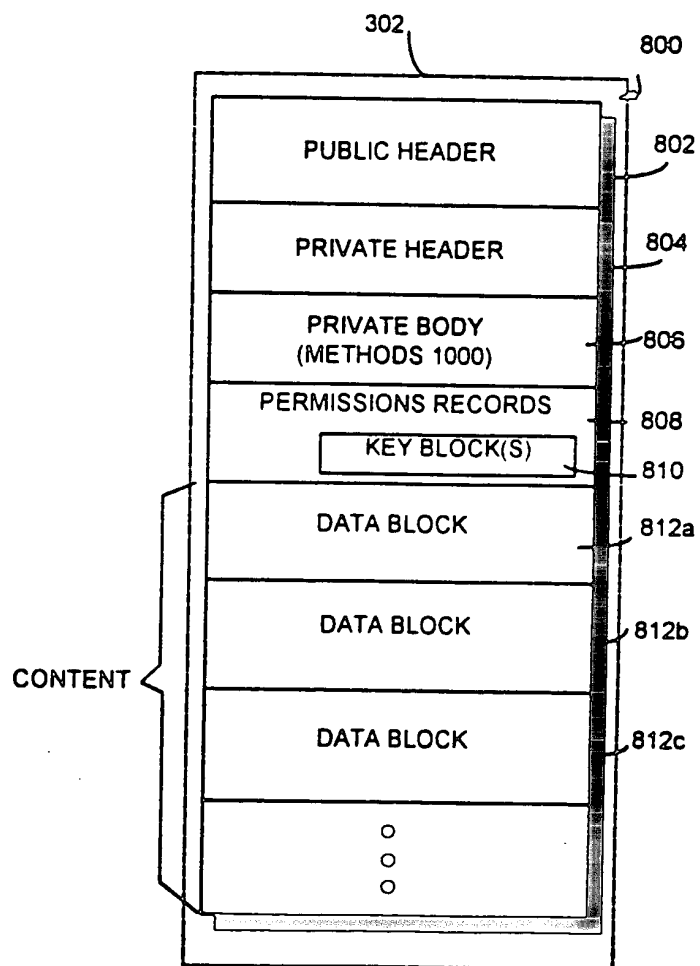


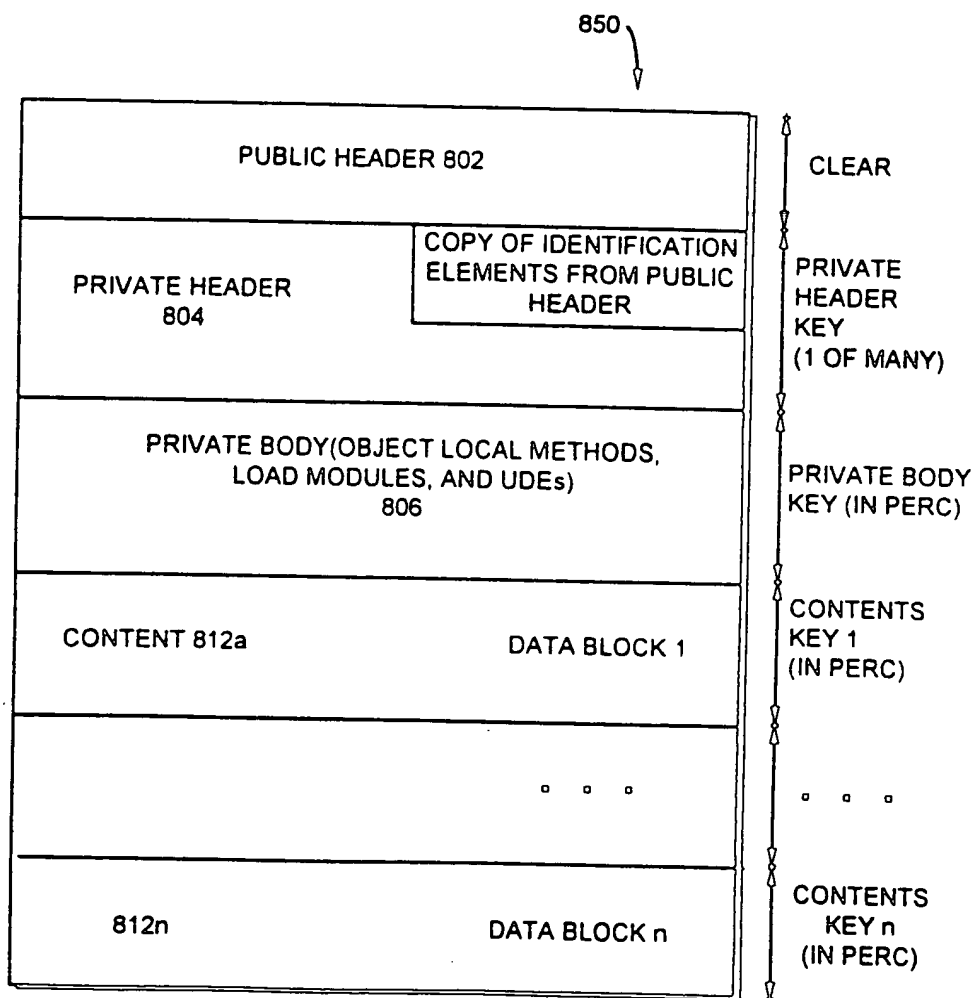
FIG. 16





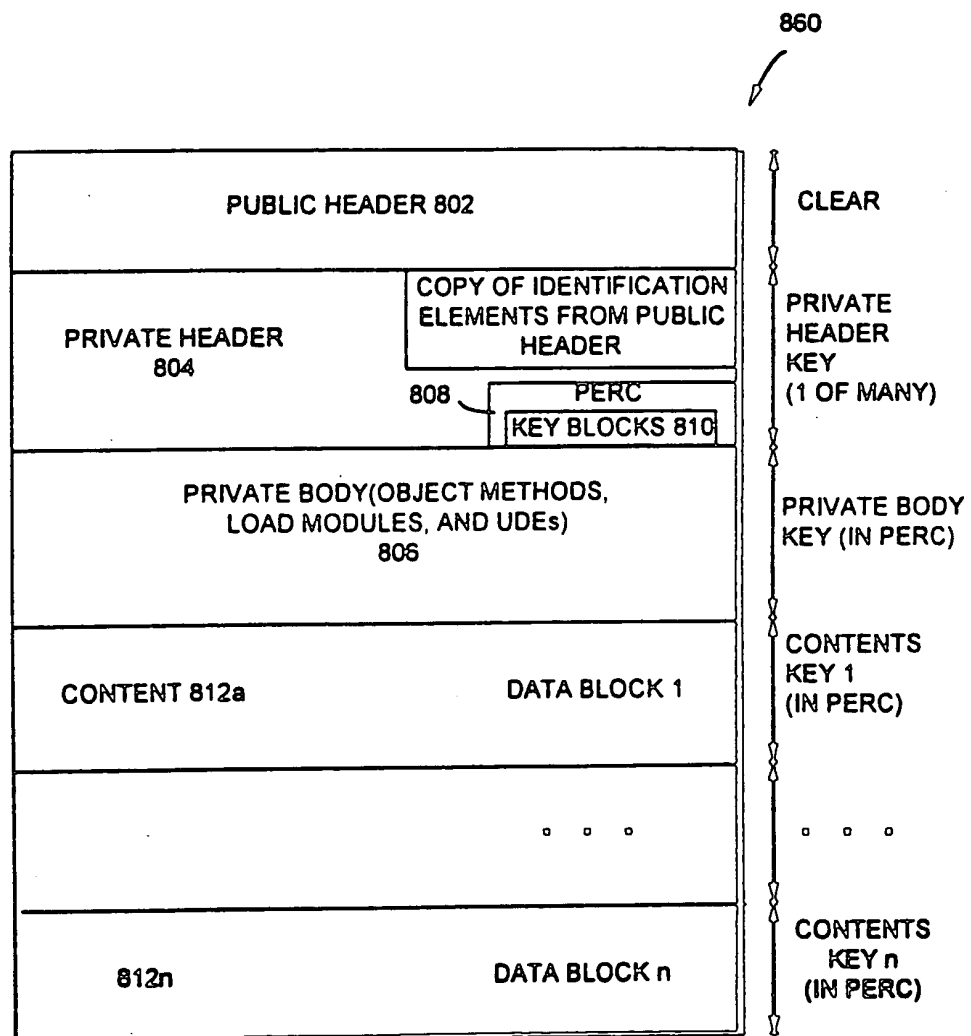
LOGICAL OBJECT

FIG. 17



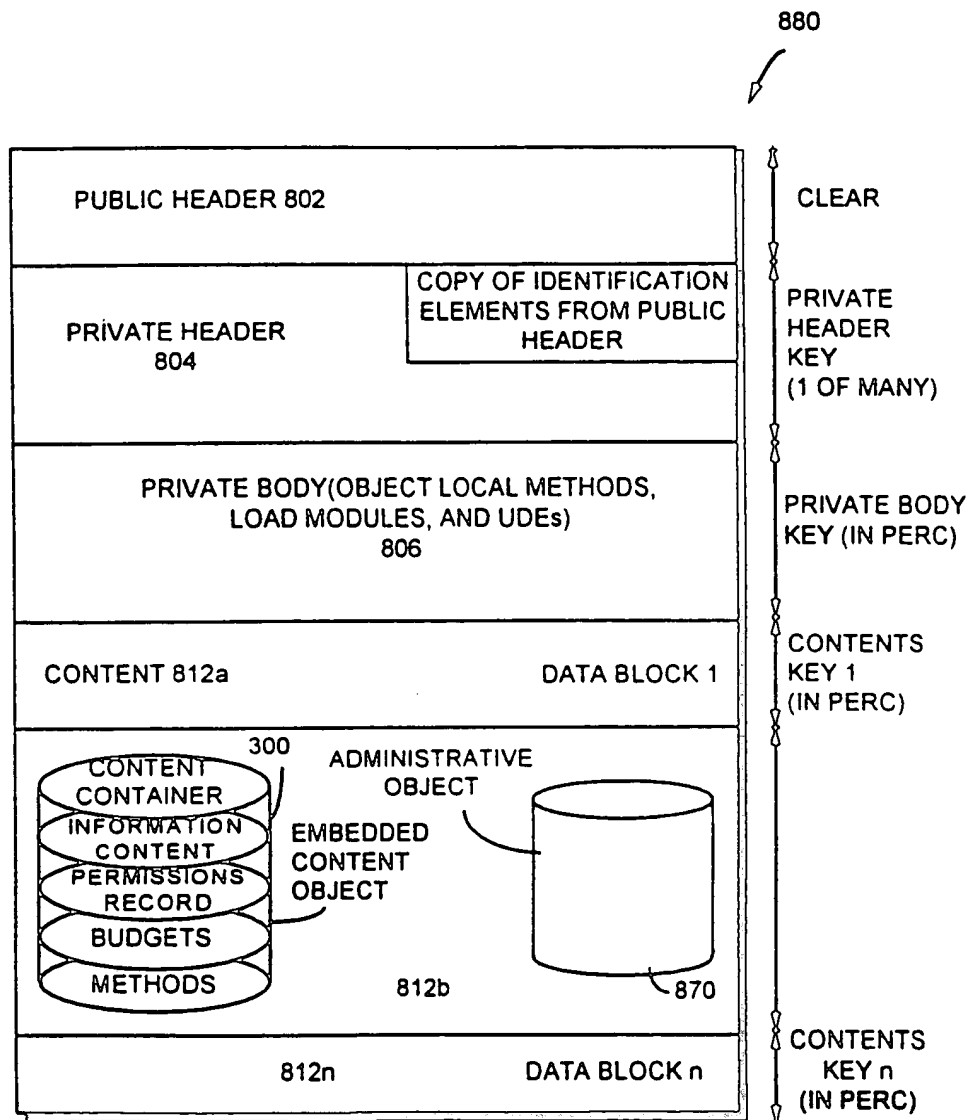
STATIONARY OBJECT

FIG. 18



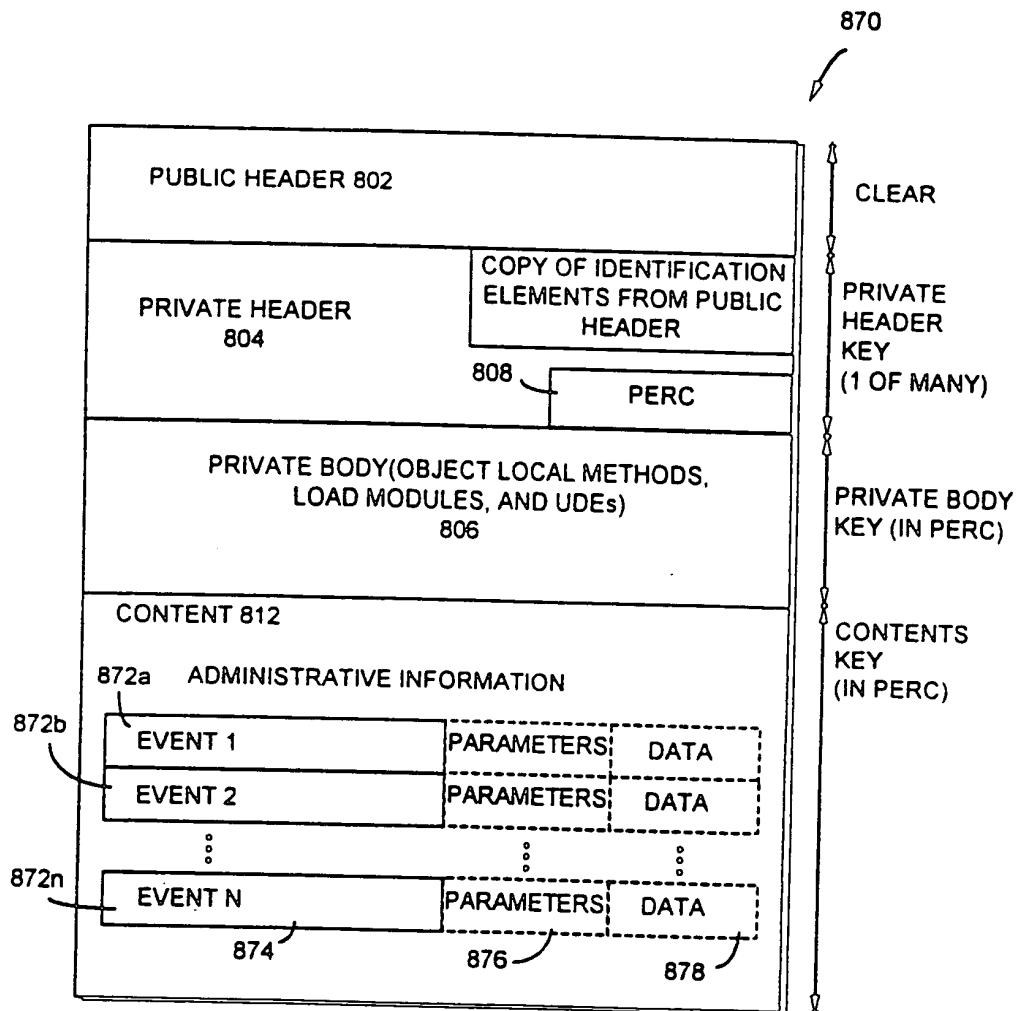
TRAVELING OBJECT

FIG. 19



CONTENT OBJECT

FIG. 20



ADMINISTRATIVE OBJECT

FIG. 21

FIG. 22

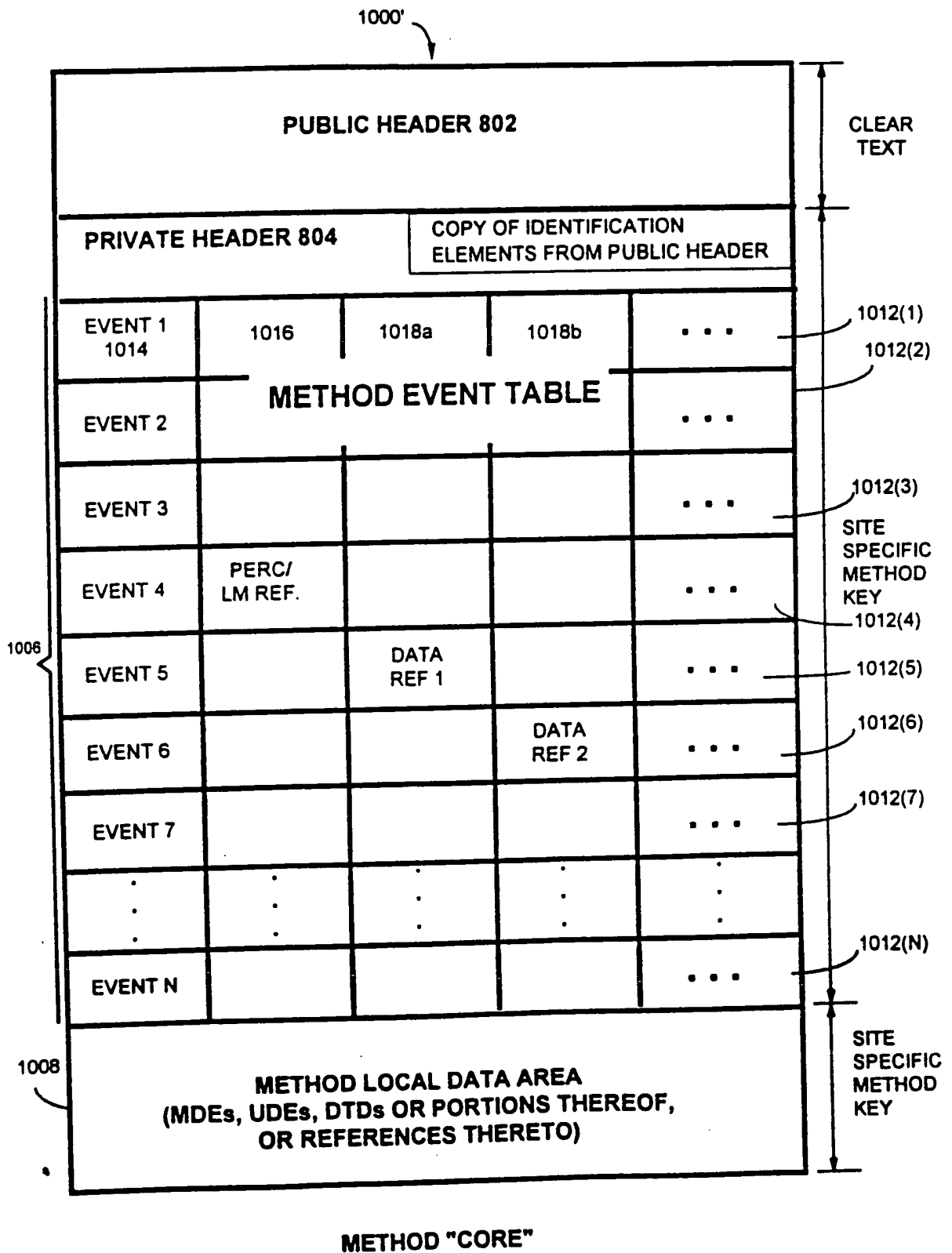
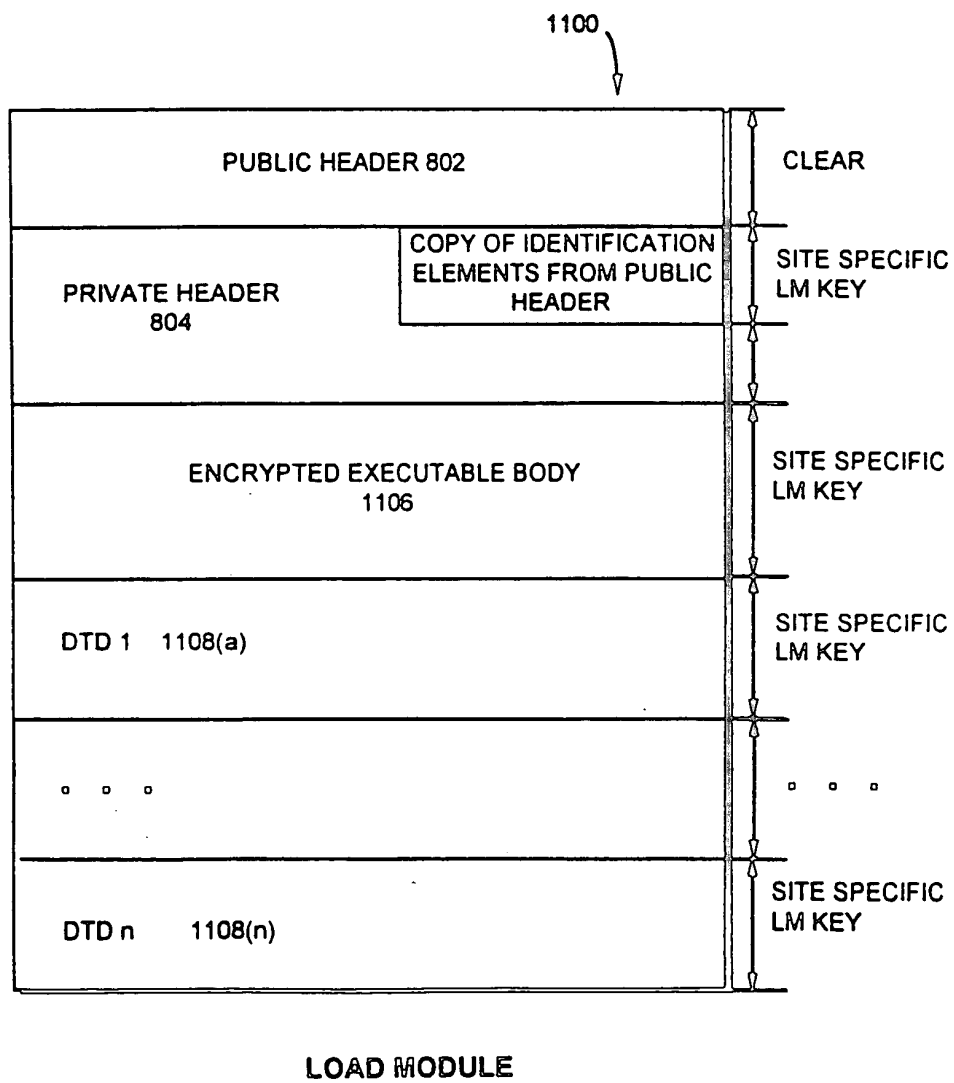
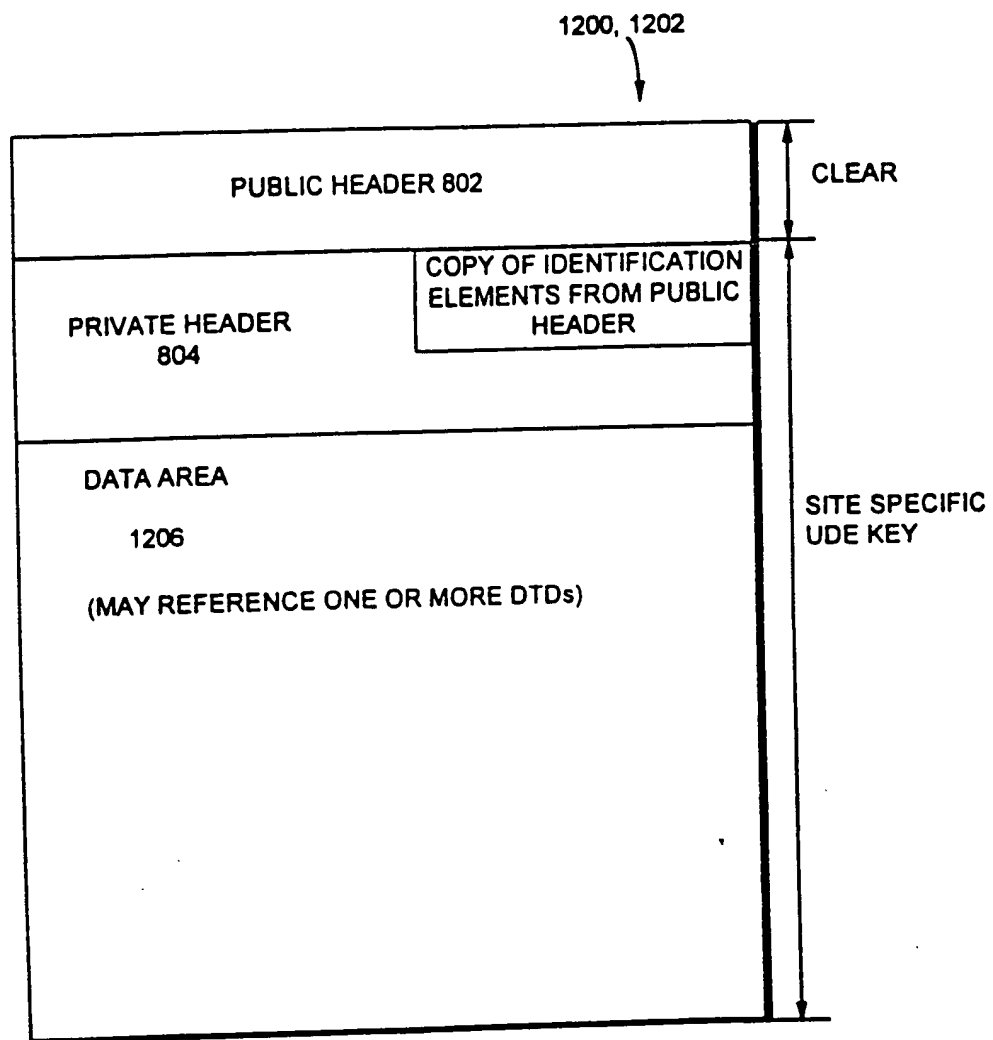


FIG. 23



LOAD MODULE

FIG. 24



UDE (MDE)

FIG. 25A

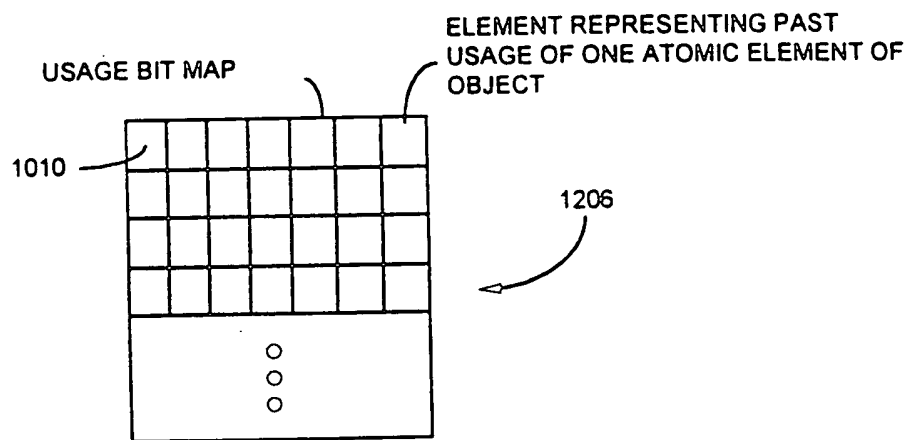


FIG. 25B

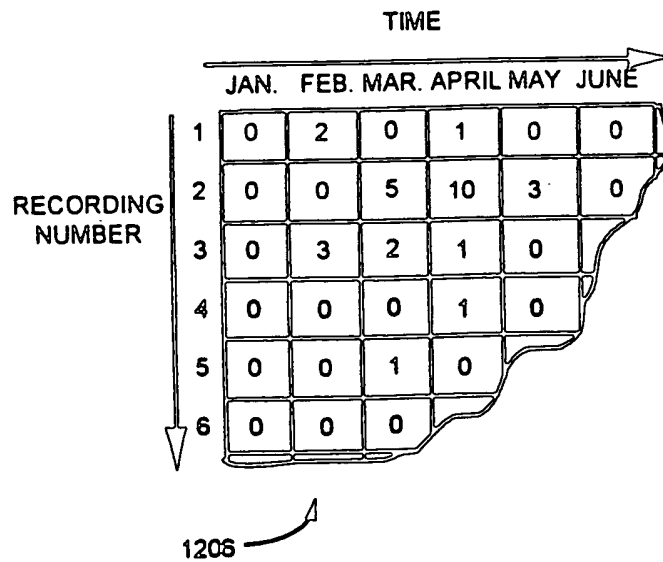


FIG. 25C

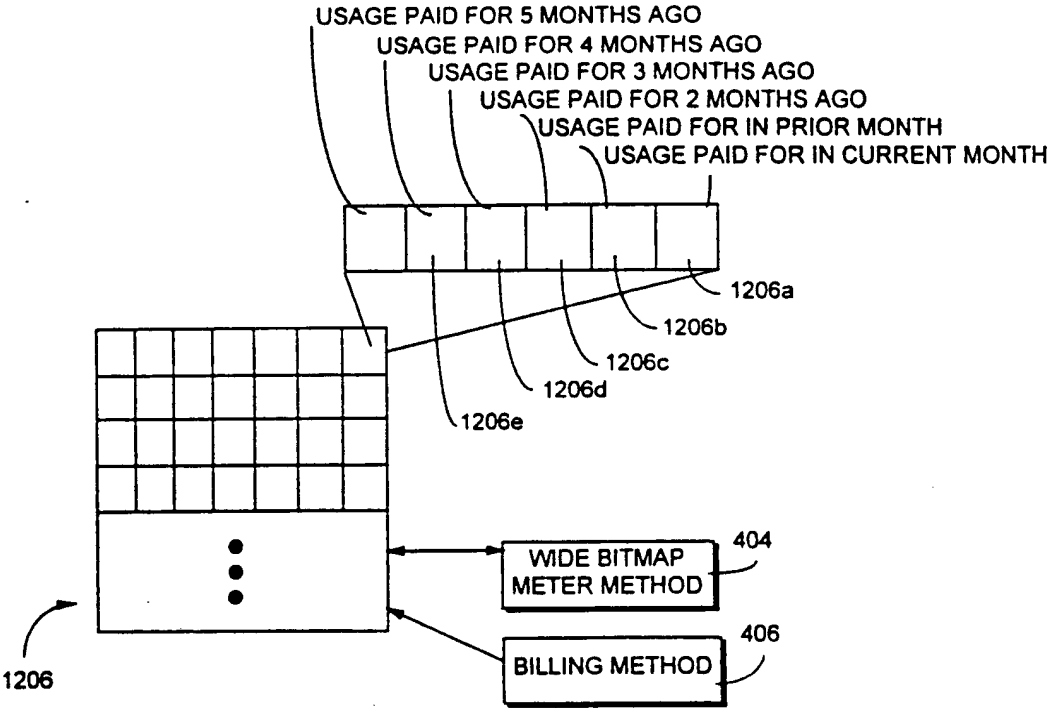


FIG. 25C

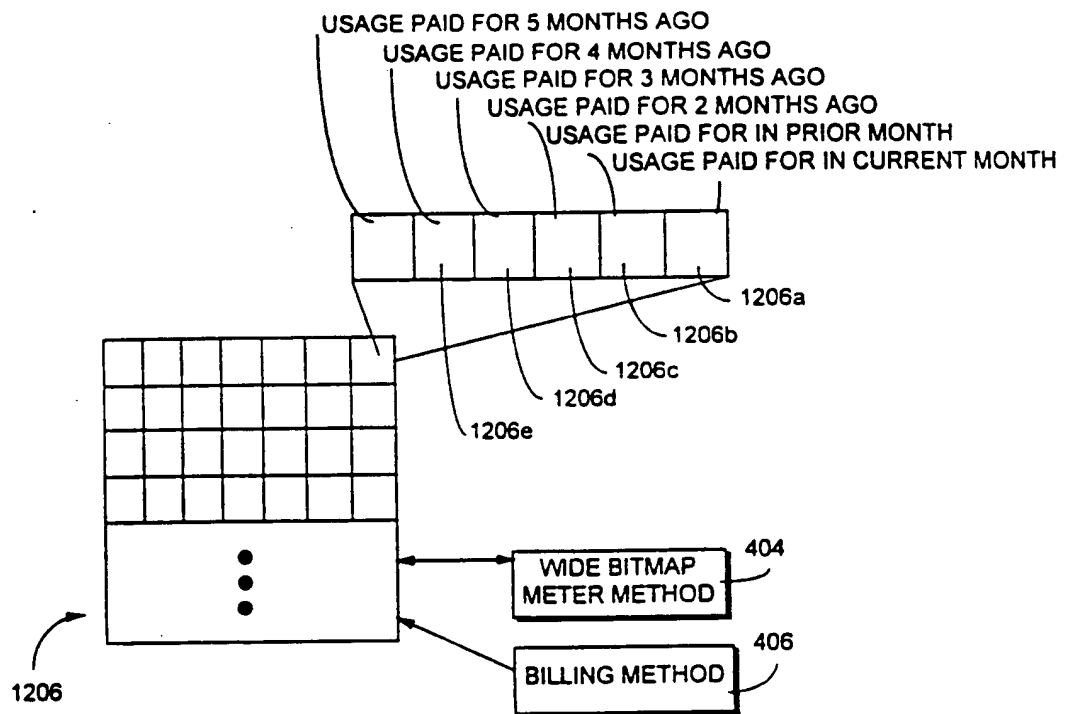


FIG. 26

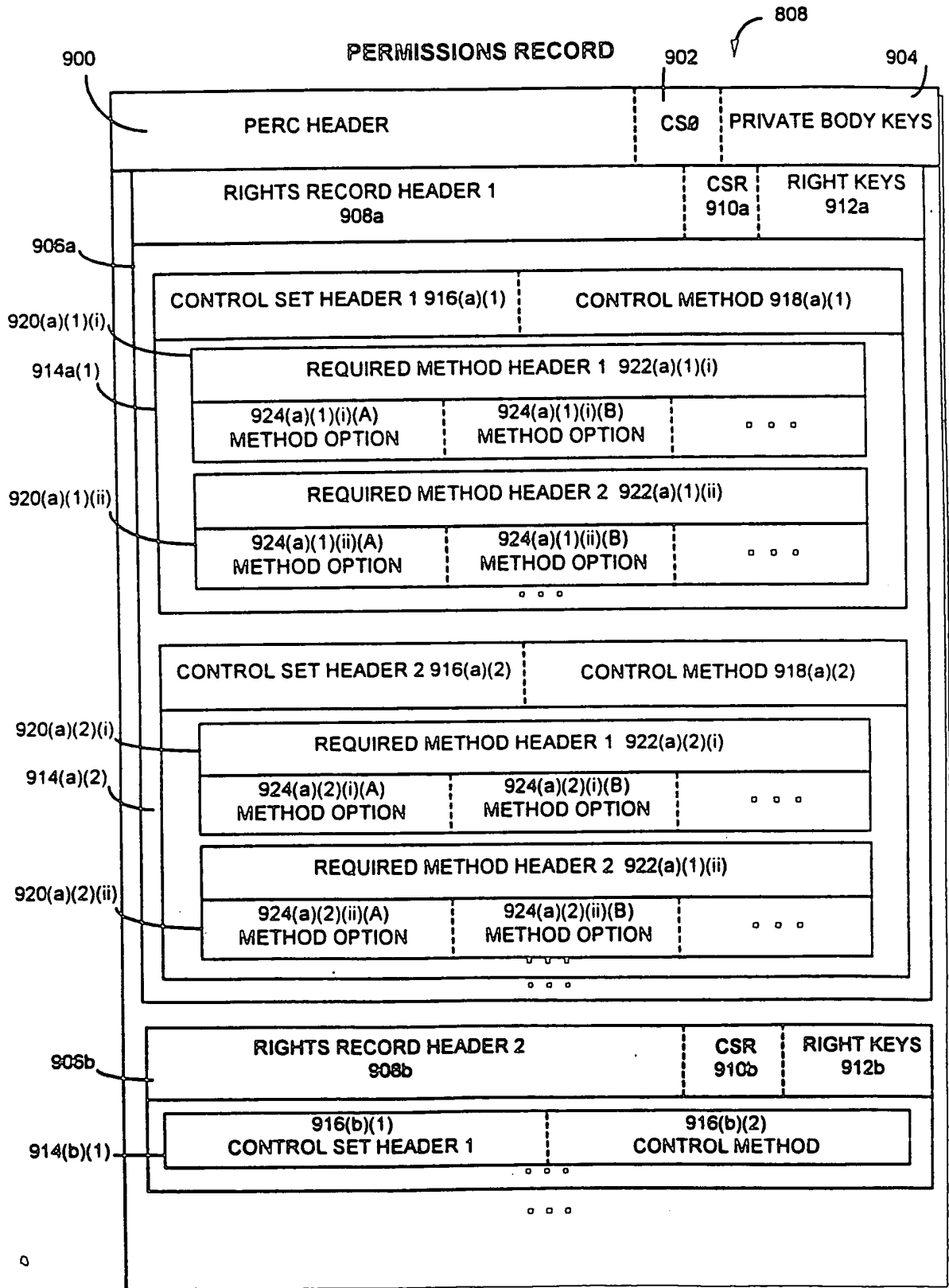
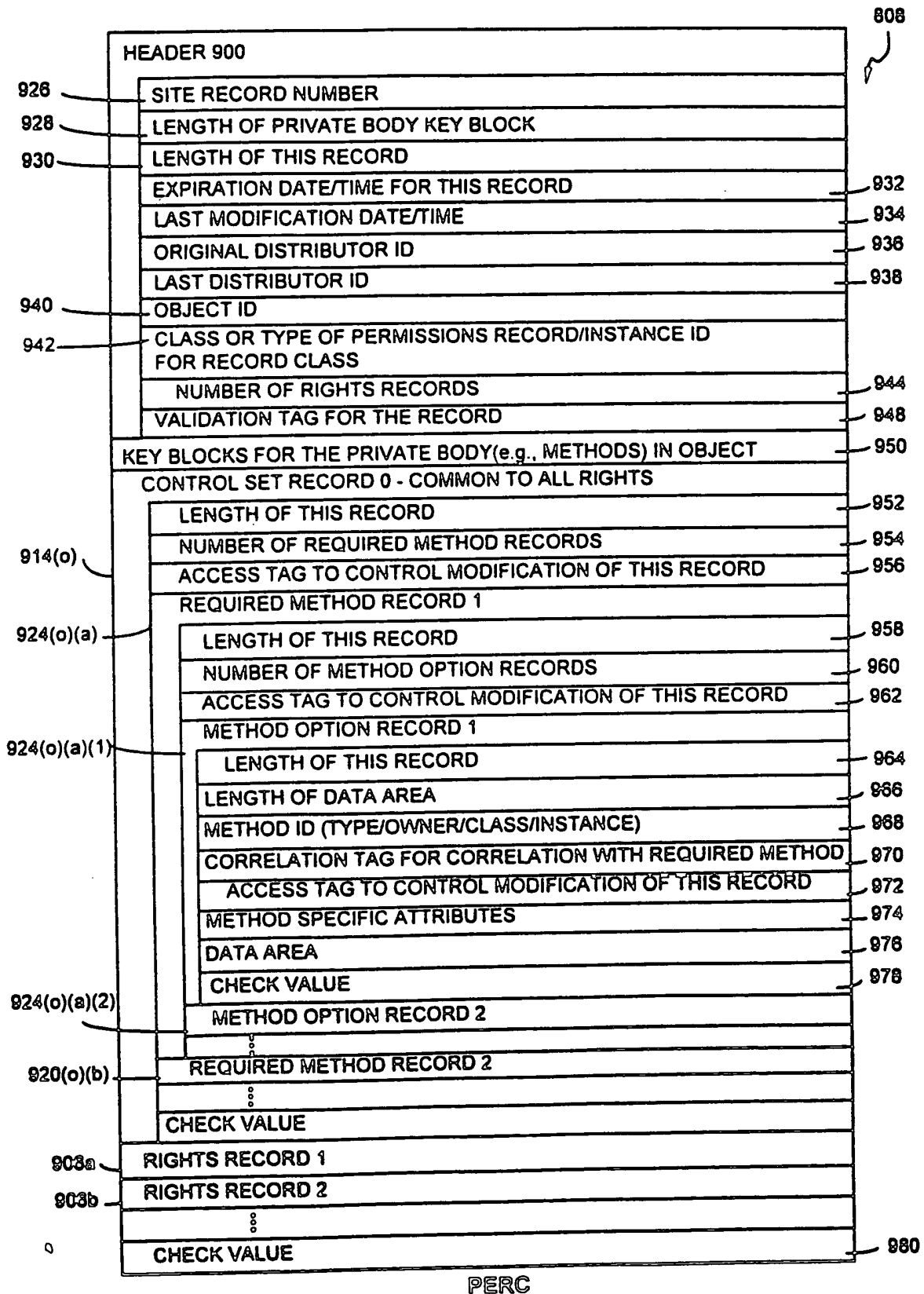


FIG. 26A



PERC

FIG. 26B

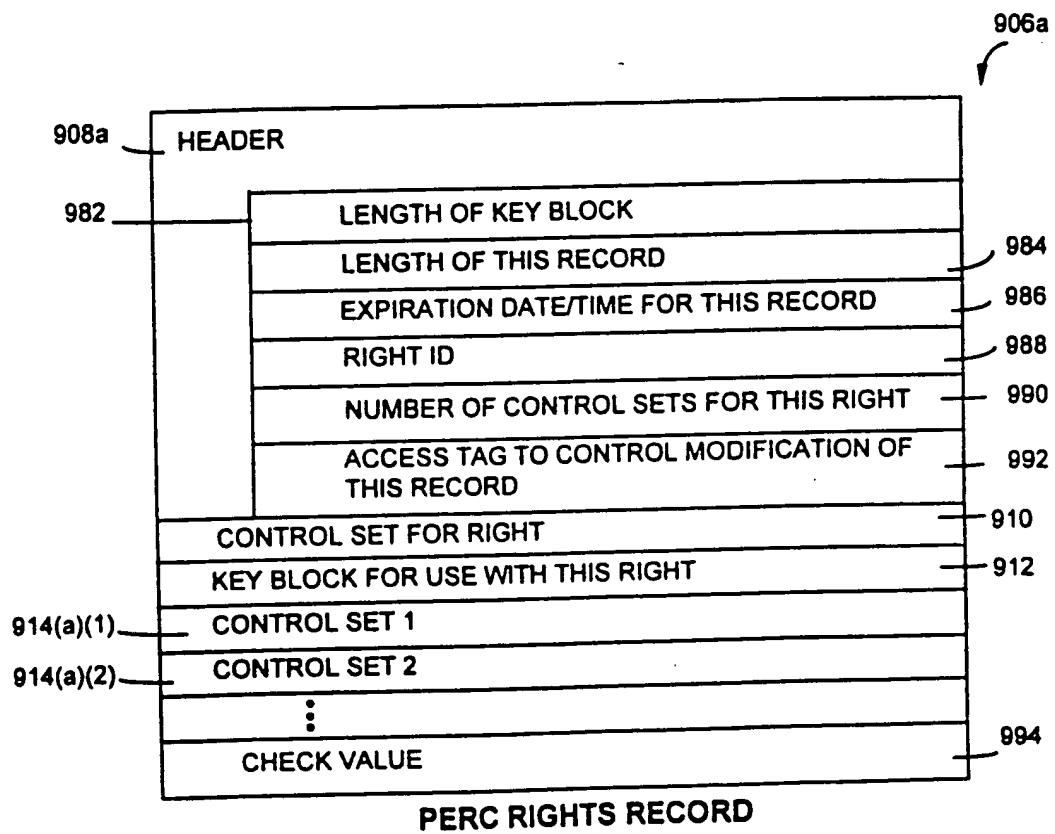


FIG. 27
SHIPPING TABLE

HEADER 444A	SITE RECORD NUMBER	444A(1)	444
	USER (GROUP) ID	444A(2)	
	REF. TO "FIRST" COMPLETED OUTGOING SHIPPING RECORD	444A(3)	
	REF. TO "LAST" COMPLETED OUTGOING SHIPPING RECORD	444A(4)	
	REF. TO "FIRST" SCHEDULED OUTGOING SHIPPING RECORD	444A(5)	
	REF. TO "LAST" SCHEDULED OUTGOING SHIPPING RECORD	444A(6)	
	VALIDATION TAG FROM NAME SERVICES RECORD	444A(7)	
	VALIDATION TAG FOR "FIRST" OUTGOING SHIPPING RECORD(S)	444A(8)	
	CHECK VALUE	444A(9)	
SHIPPING RECORD 445(1)	SITE RECORD NUMBER	445(1)(A)	
	FIRST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(B)	
	LAST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(C)	
	ACTUAL DATE/TIME OF COMPLETED SHIPMENT	445(1)(D)	
	OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) SHIPPED	445(1)(E)	
	REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG	445(1)(F)	
	REF. TO NAME SERVICES RECORD NAMING RECIPIENT	445(1)(G)	
	PURPOSE OF SHIPMENT	445(1)(H)	
	STATUS OF SHIPMENT	445(1)(I)	
	REF. TO "PREVIOUS" OUTGOING SHIPPING RECORD	445(1)(J)	
	REF. TO "NEXT" OUTGOING SHIPPING RECORD	445(1)(K)	
	VALIDATION TAG FROM HEADER	445(1)(L)	
	VALIDATION TAG TO ADMINISTRATIVE EVENT LOG	445(1)(M)	
	VALIDATION TAG TO NAME SERVICES RECORD	445(1)(N)	
	VALIDATION TAG FROM PREVIOUS RECORD	445(1)(O)	
	VALIDATION TAG TO NEXT RECORD	445(1)(P)	
	CHECK VALUE	445(1)(Q)	
	° ° °		
	SHIPPING RECORD N	445(1)(R)	

FIG. 28
RECEIVING TABLE

		446A(1)	
HEADER 446A	SITE RECORD NUMBER		446
	USER (GROUP) ID		446A(2)
	REF. TO "FIRST" COMPLETED INCOMING RECEIVING RECORD		446A(3)
	REF. TO "LAST" COMPLETED INCOMING RECEIVING RECORD		446A(4)
	REF. TO "FIRST" SCHEDULED INCOMING RECEIVING RECORD		446A(5)
	REF. TO "LAST" SCHEDULED INCOMING RECEIVING RECORD		446A(6)
	VALIDATION TAG FROM NAME SERVICES RECORD		446A(7)
	VALIDATION TAG FOR "FIRST" INCOMING RECEIVING RECORD(S)		446A(8)
	CHECK VALUE		446A(9)
		446A(1)	
RECEIVING RECORD 447(1)	SITE RECORD NUMBER		447(1)(A)
	FIRST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(B)
	LAST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(C)
	ACTUAL DATE/TIME OF COMPLETED RECEPTION		447(1)(D)
	OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) RECEIVED		447(1)(E)
	REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG		447(1)(F)
	REF. TO NAME SERVICES RECORD NAMING SENDER		447(1)(G)
	PURPOSE OF RECEPTION		447(1)(H)
	STATUS OF RECEPTION		447(1)(I)
	REF. TO "PREVIOUS" INCOMING RECEIVING RECORD		447(1)(J)
	REF. TO "NEXT" INCOMING RECEIVING RECORD		447(1)(K)
	VALIDATION TAGS		447(1)(L)
	CHECK VALUE		447(1)(M)
	◊ ◊ ◊		
	RECEIVING RECORD N		447(2)

FIG. 29
ADMINISTRATIVE EVENT LOG

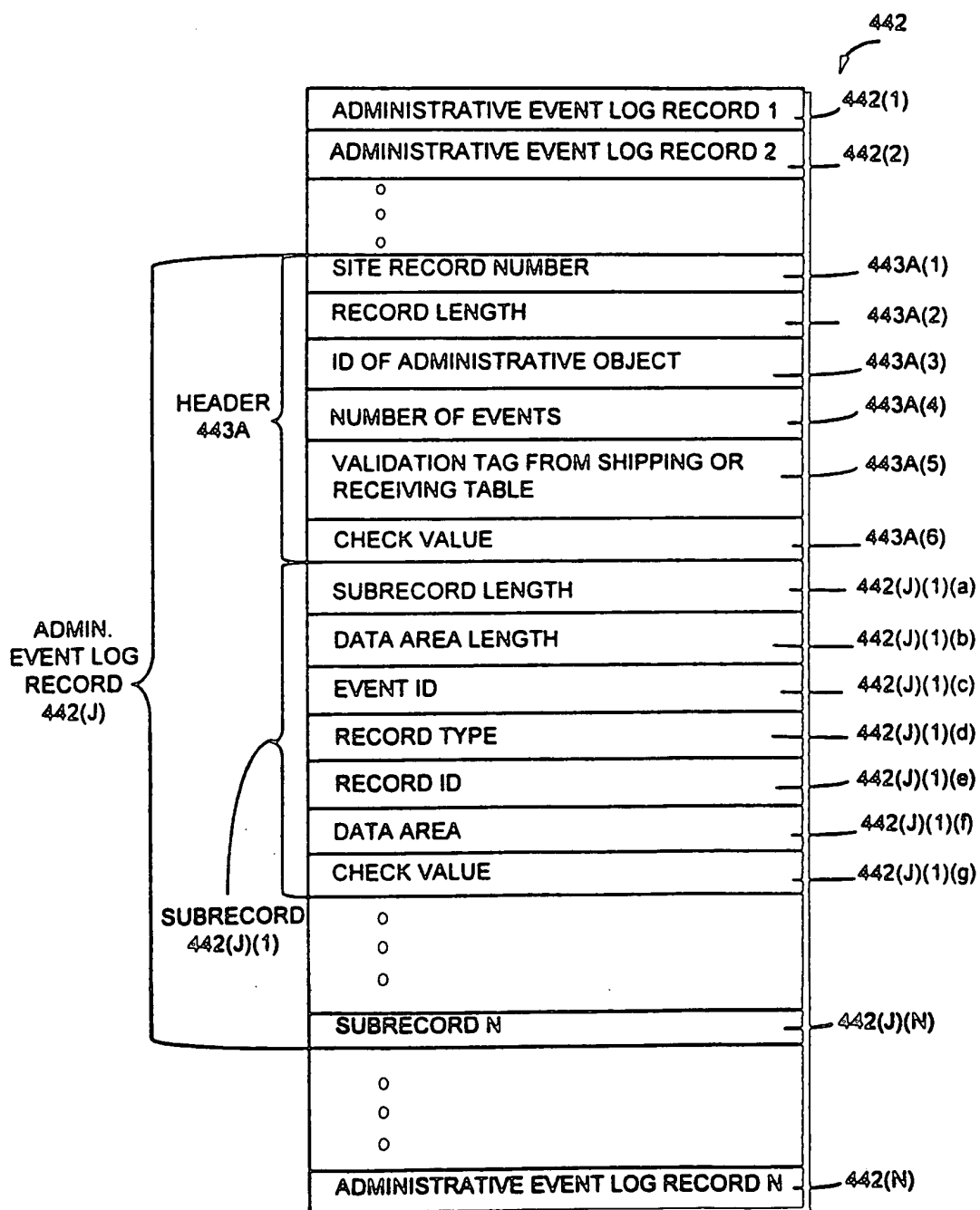
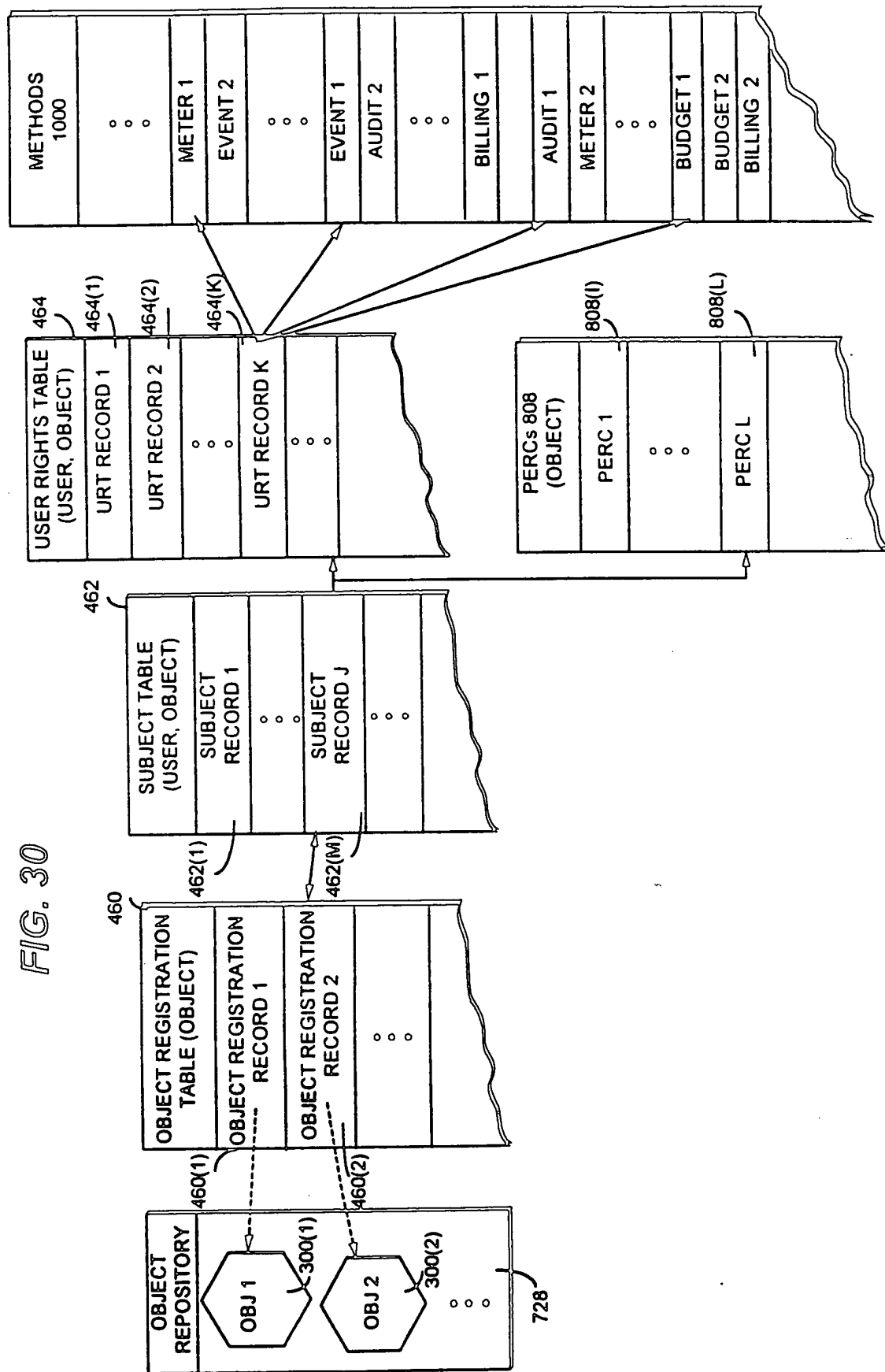


FIG. 30



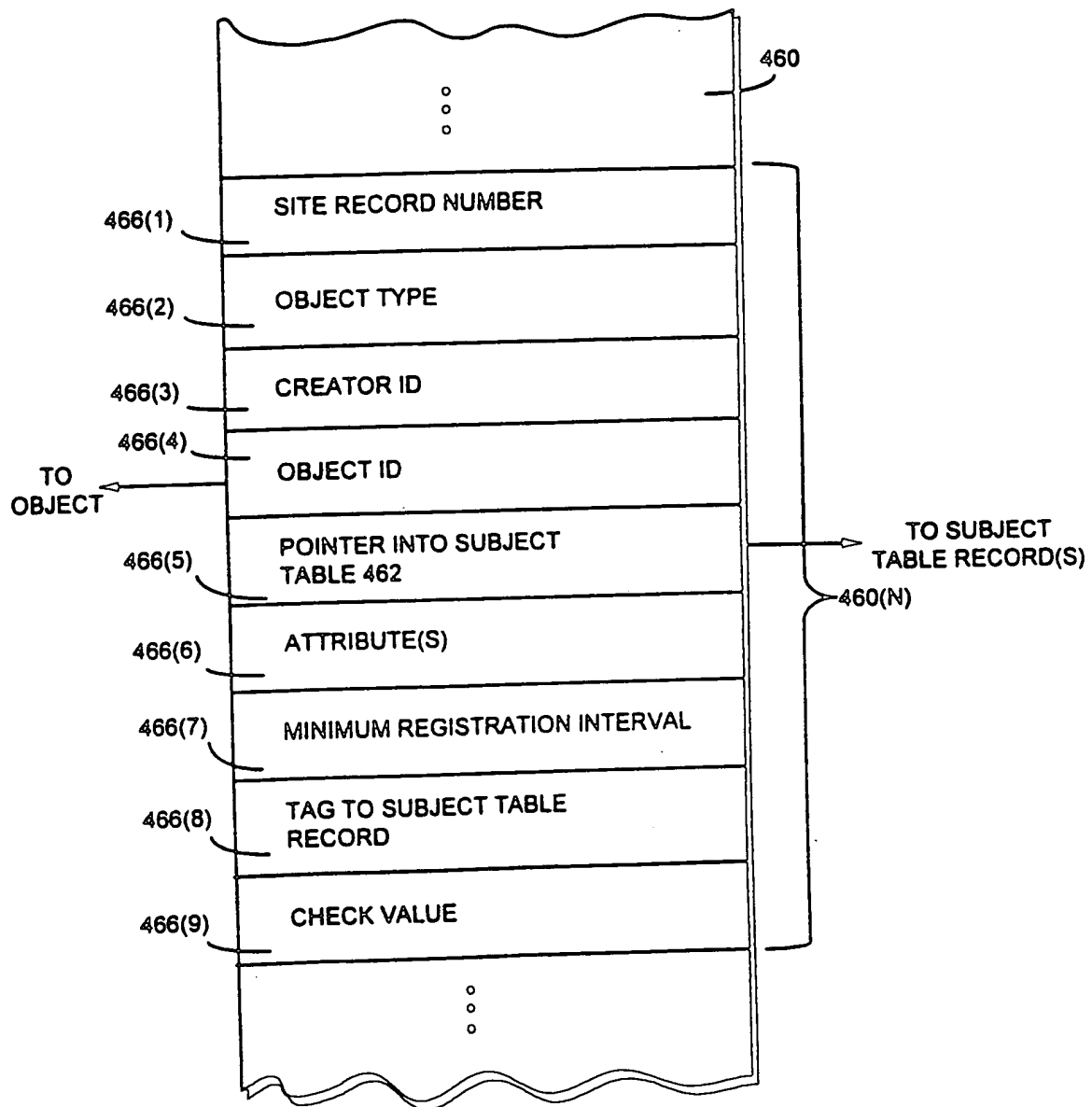


FIG. 31
OBJECT REGISTRATION TABLE

FIG. 32

SUBJECT
TABLE

"HEADER"
468

SUBJECT
RECORD
470(1)

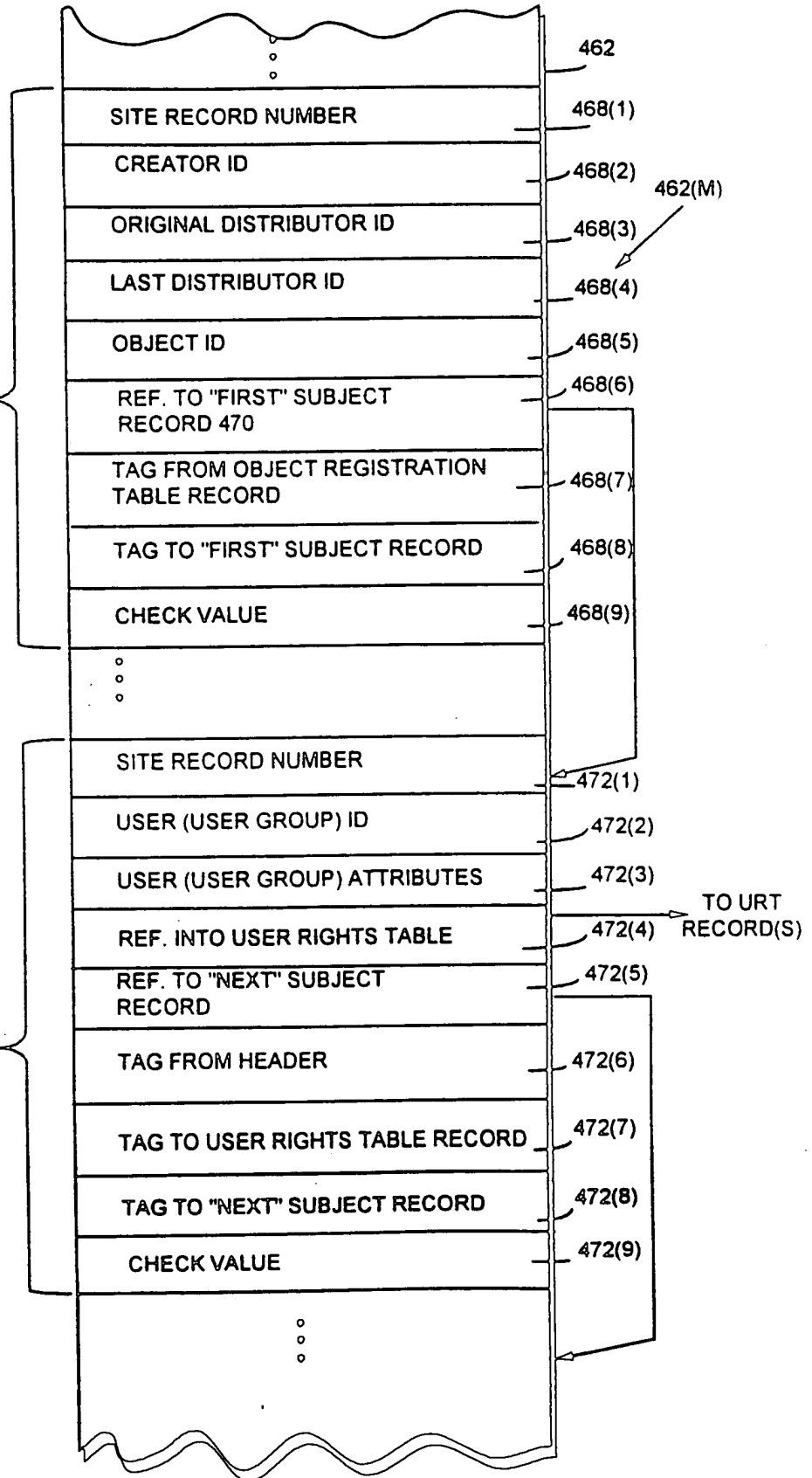


FIG. 33 USER RIGHTS TABLE

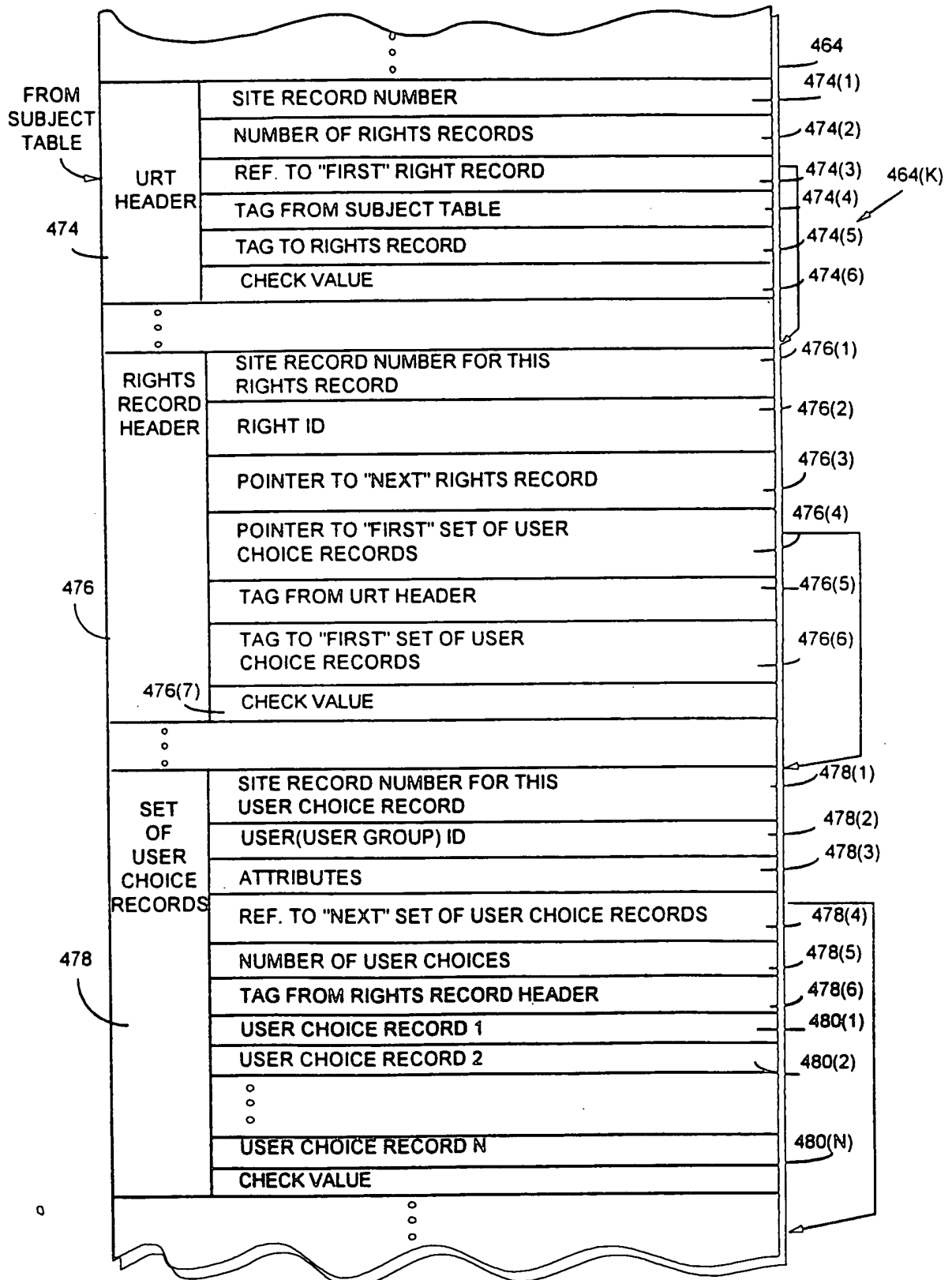


FIG. 34A

SITE RECORD

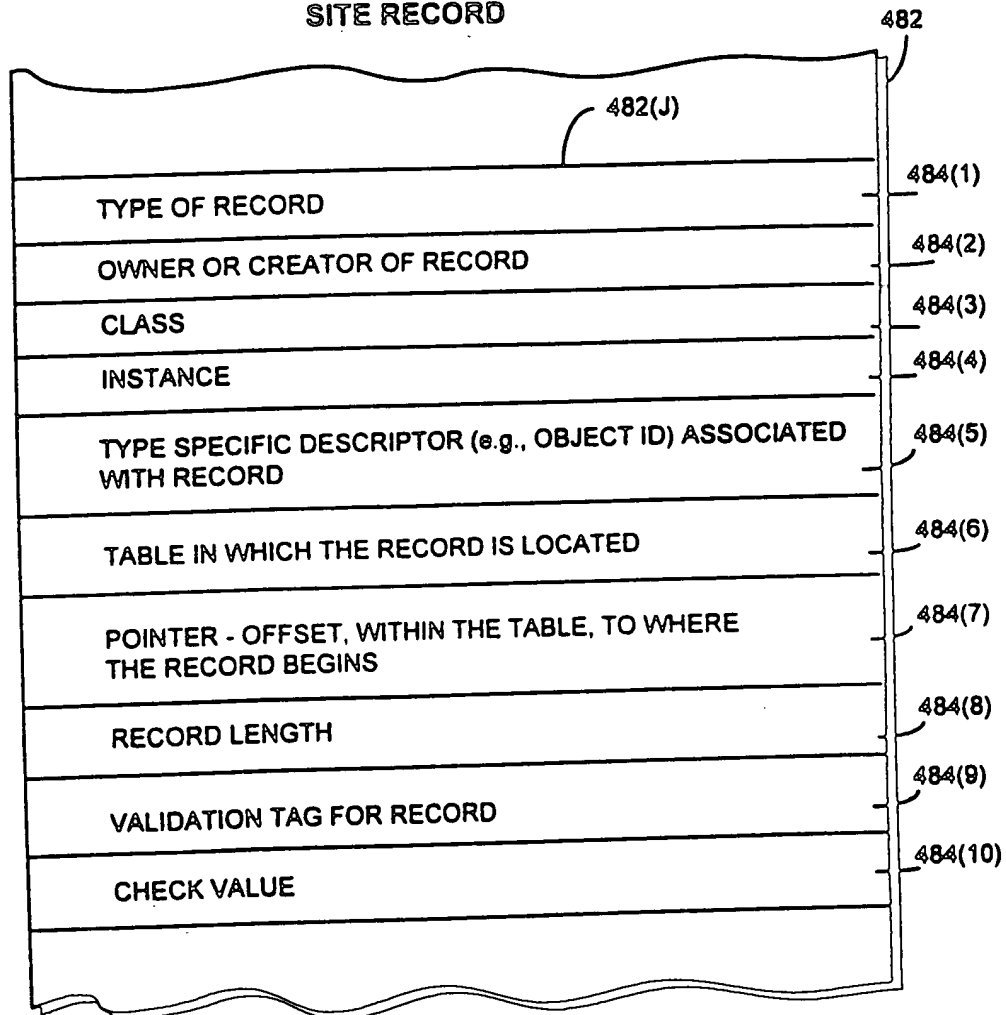


FIG. 34

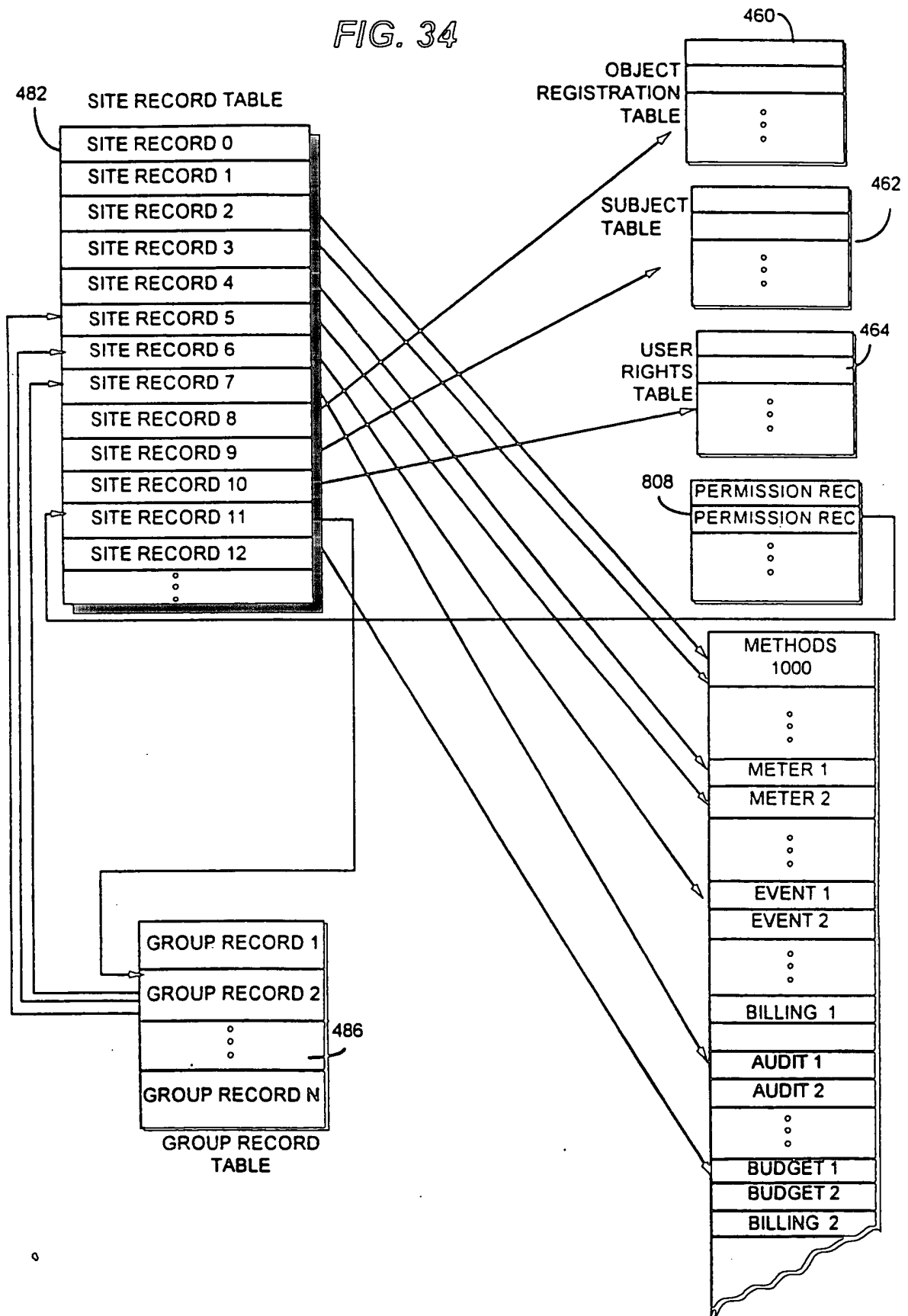


FIG. 34B

GROUP RECORD

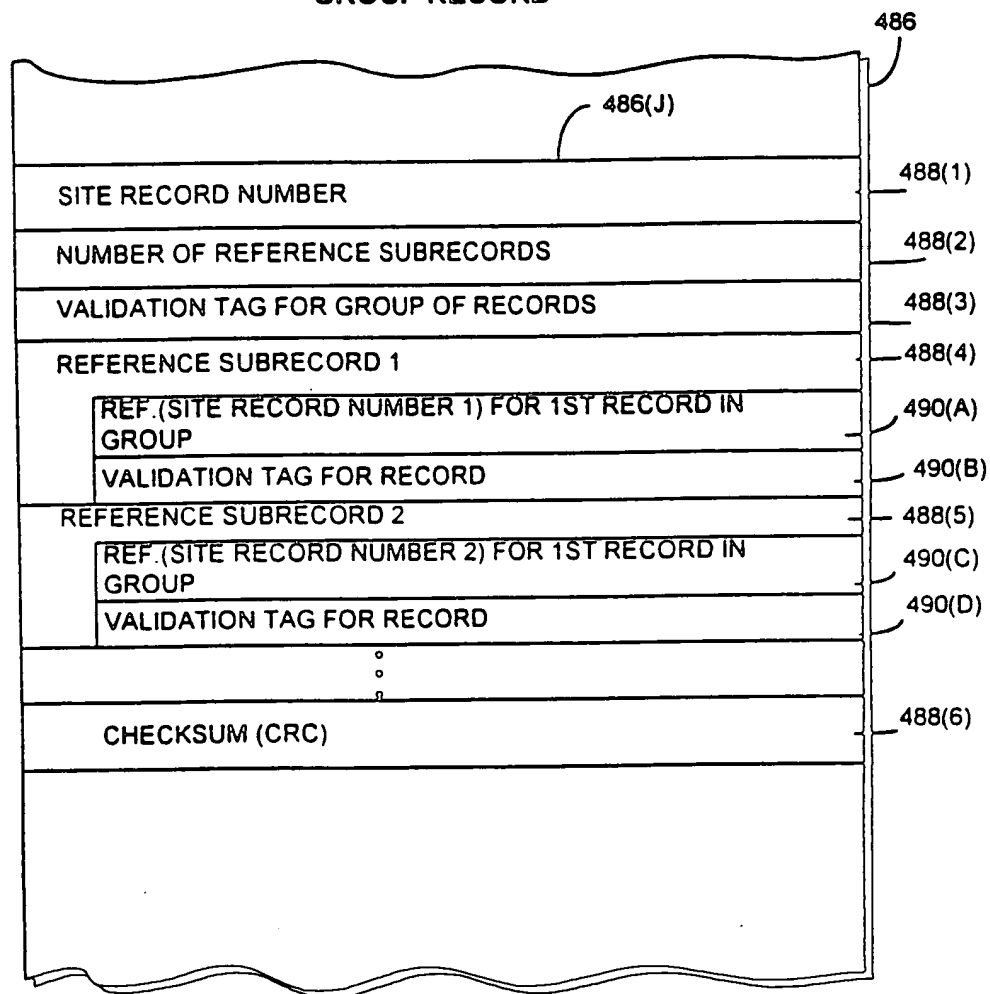


FIG. 35

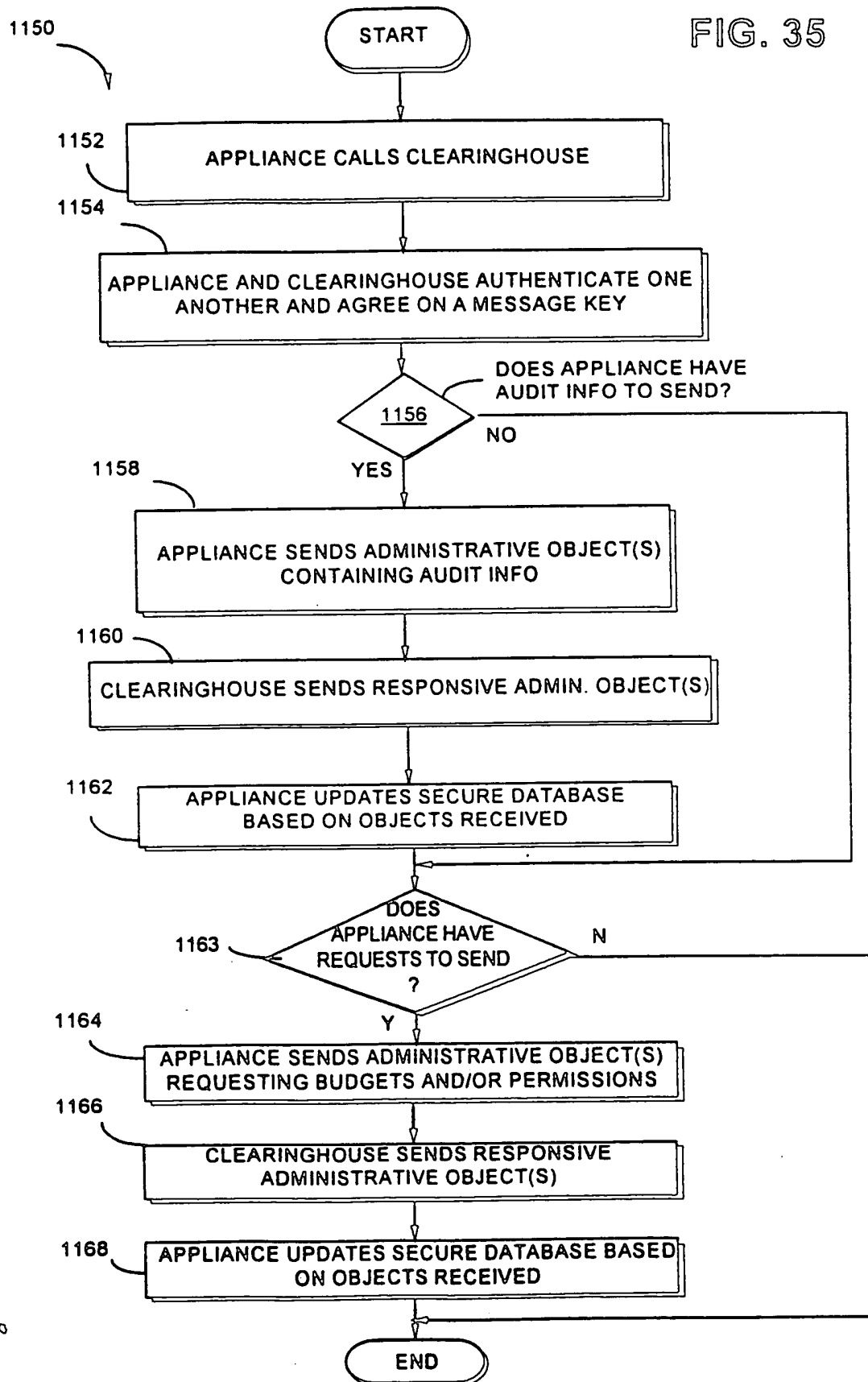


FIG. 36

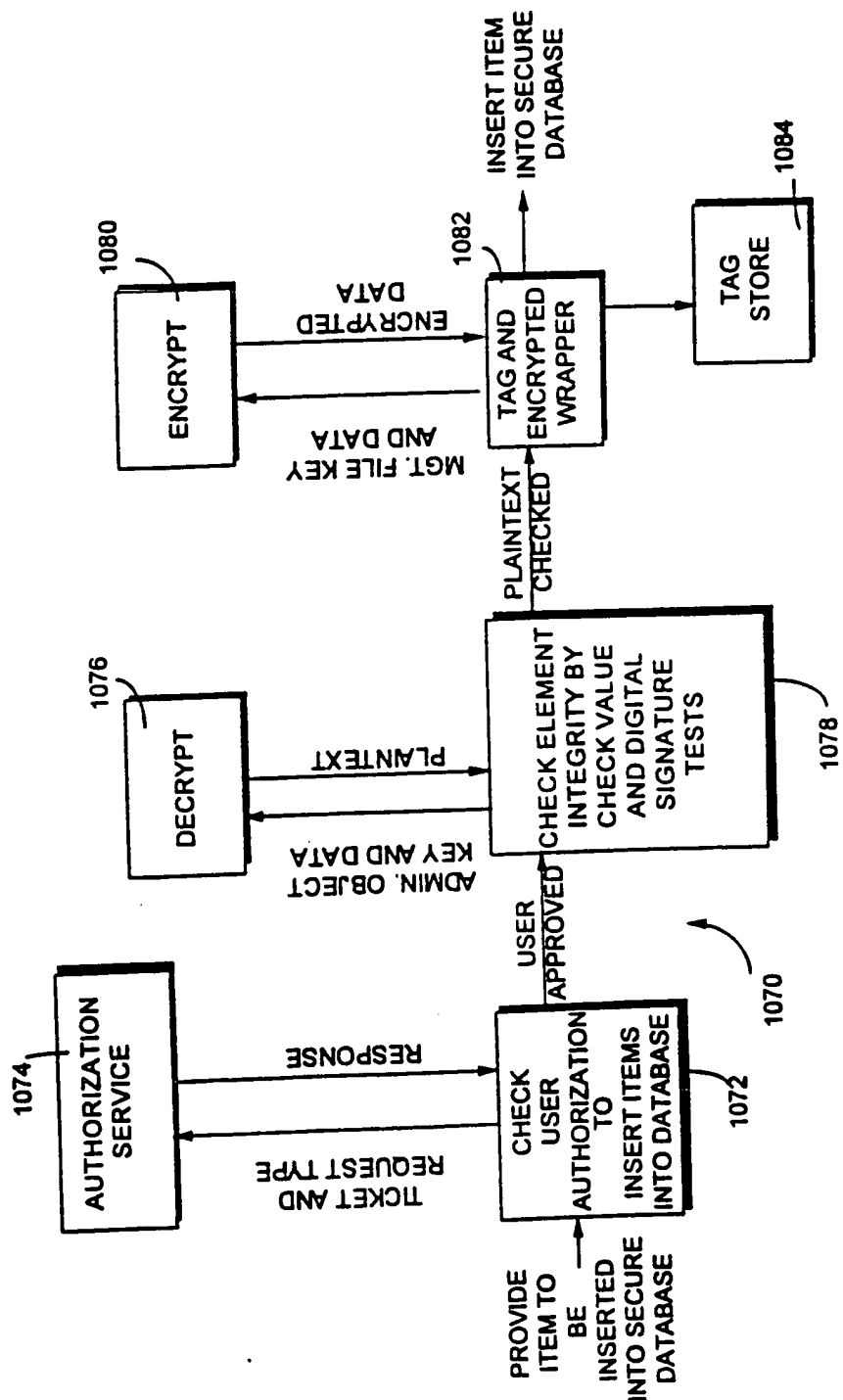


FIG. 37

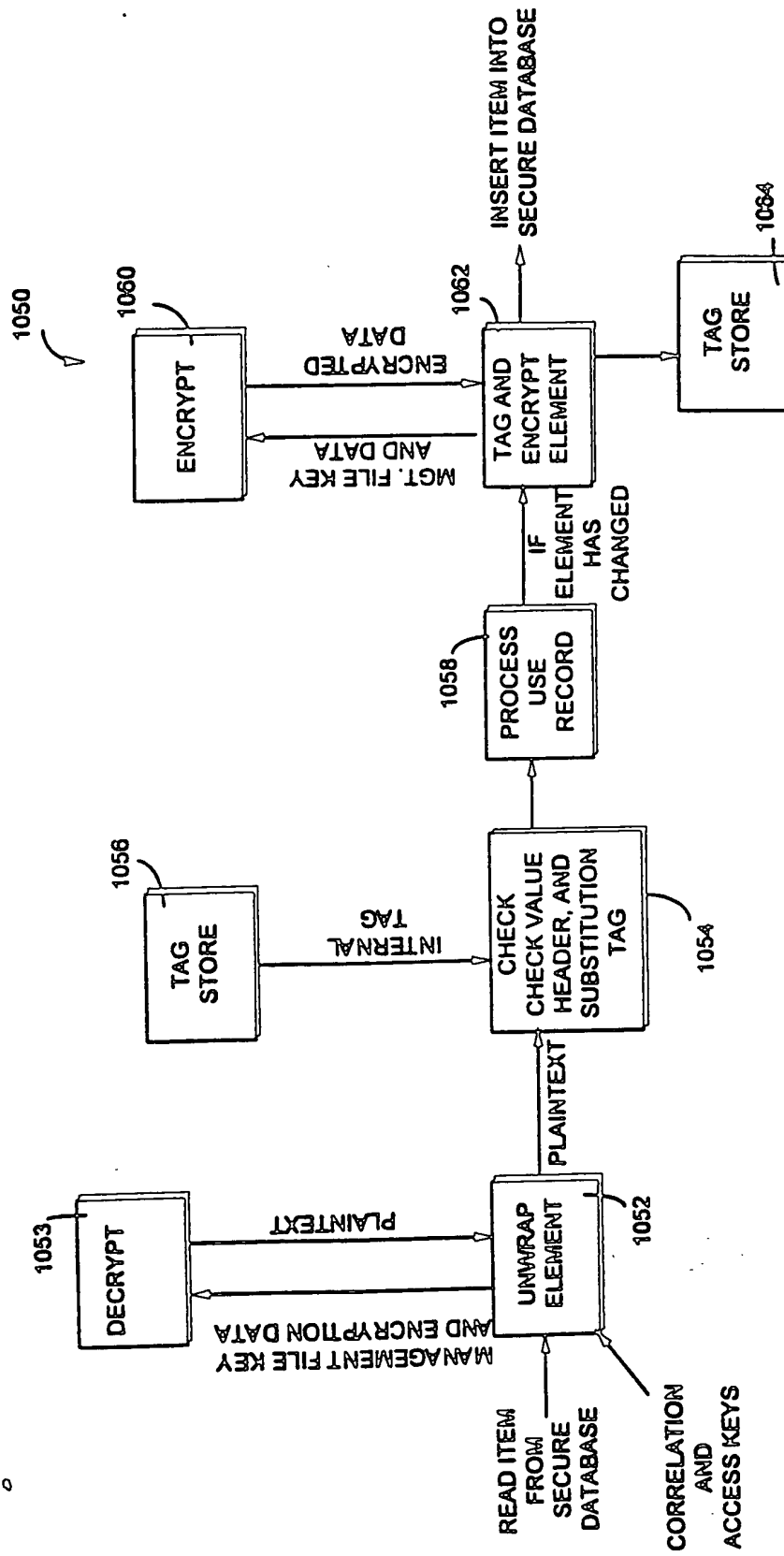


FIG. 38

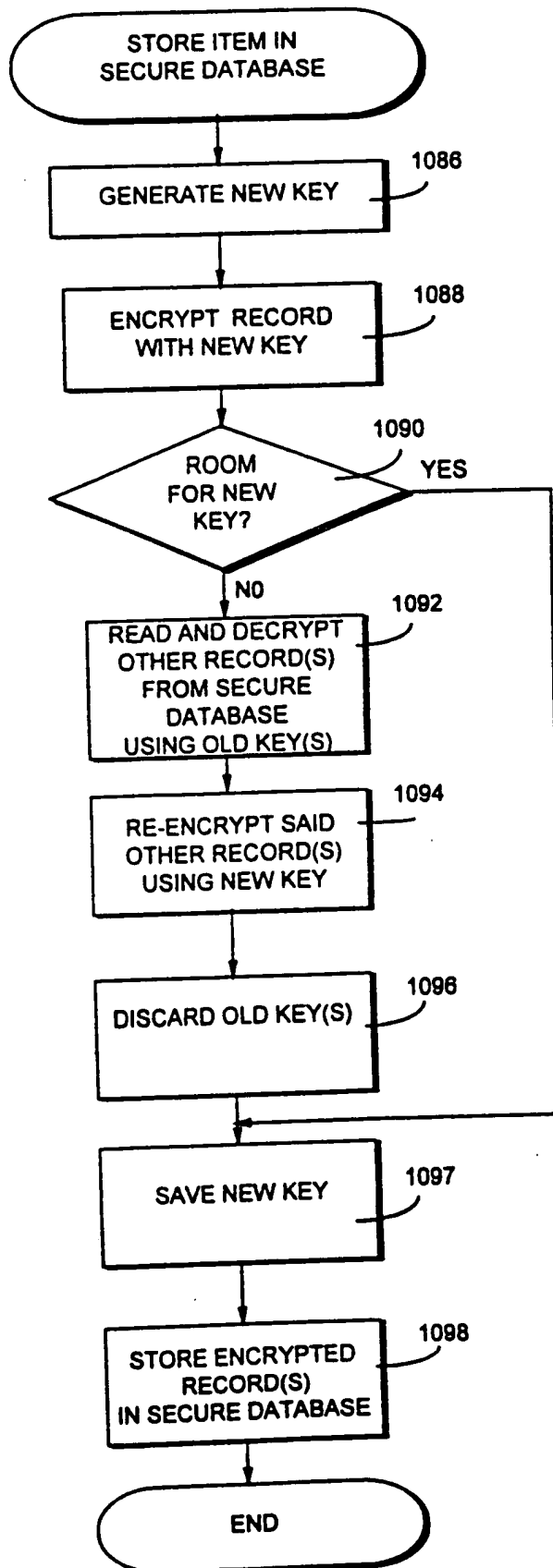


FIG. 39
BACKUP

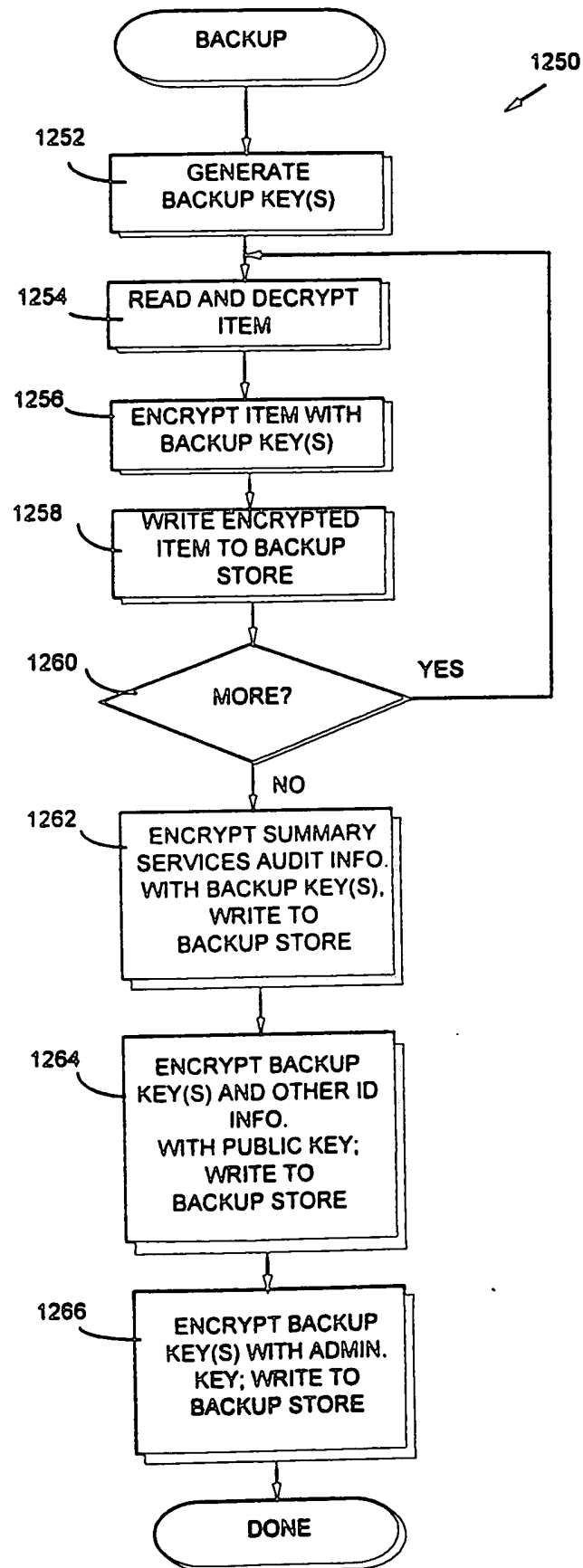
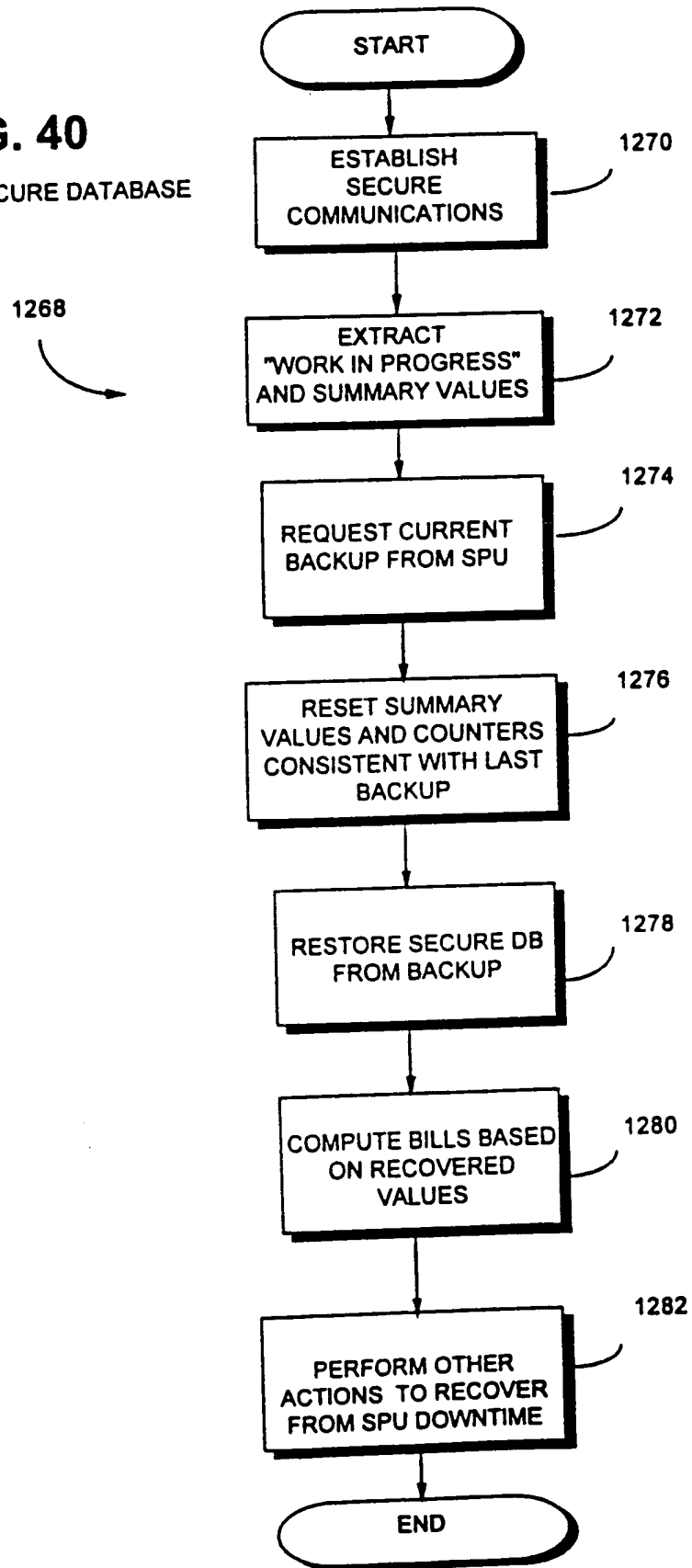


FIG. 40
RECOVER SECURE DATABASE



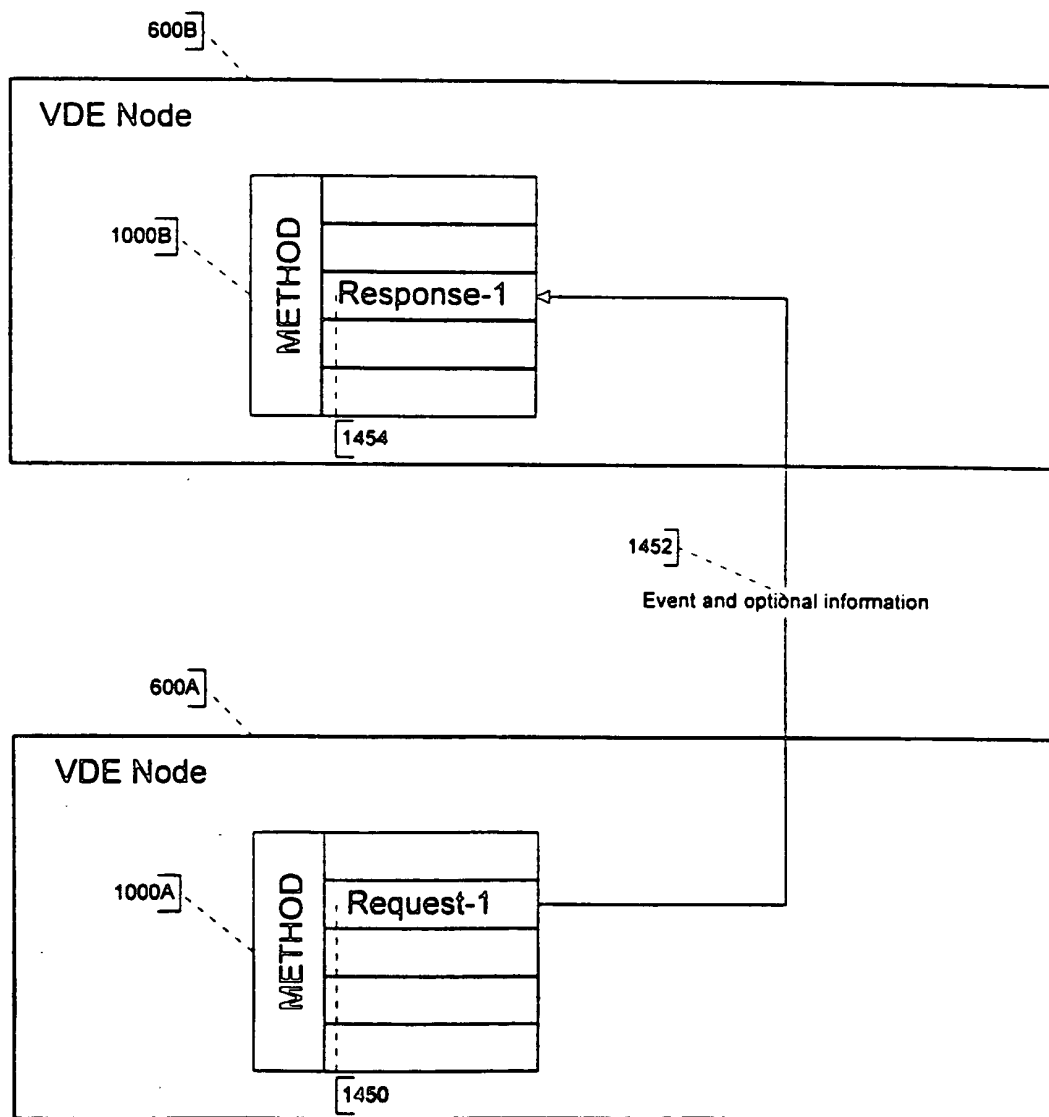


Figure 41a

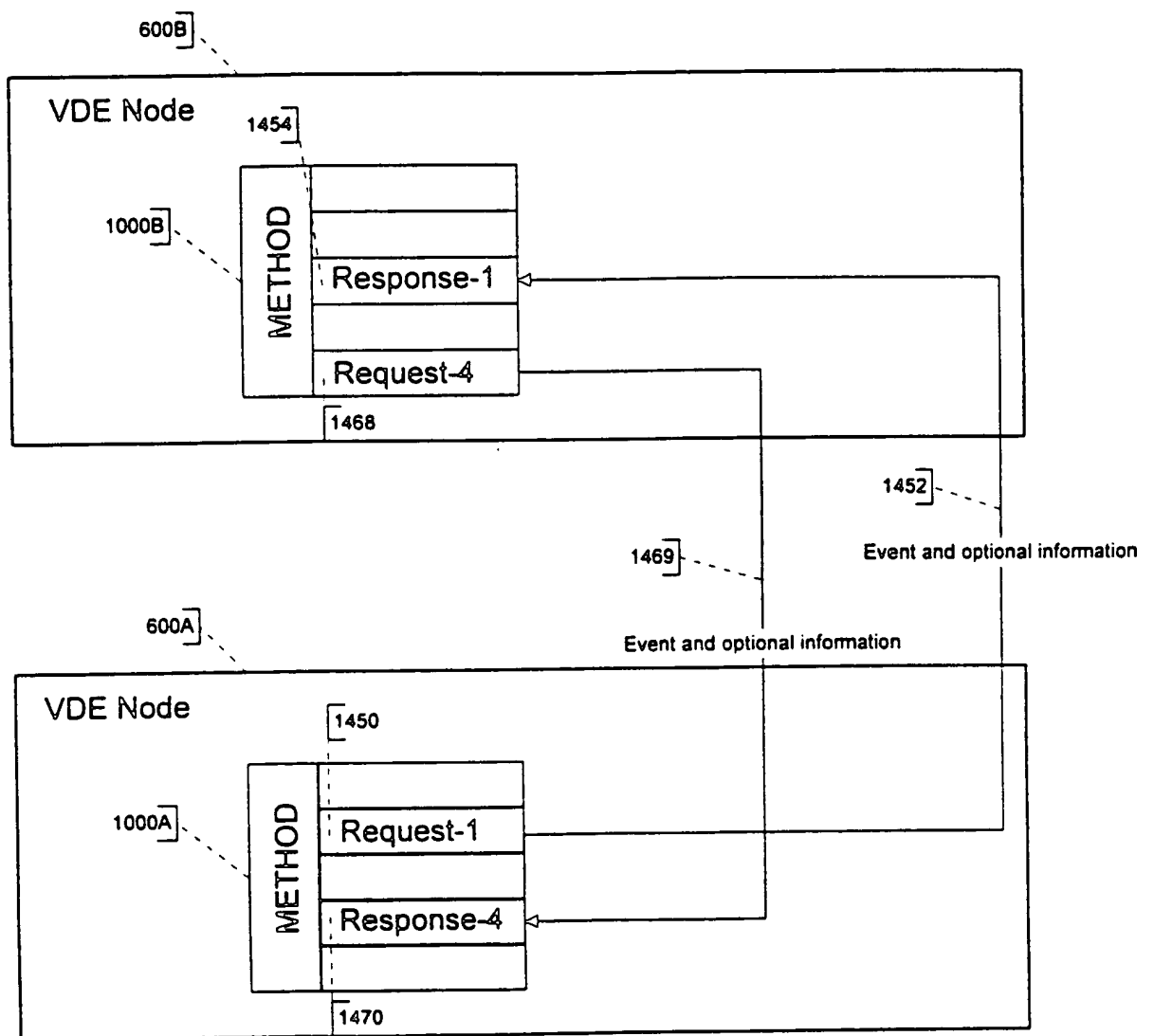


Figure 41b

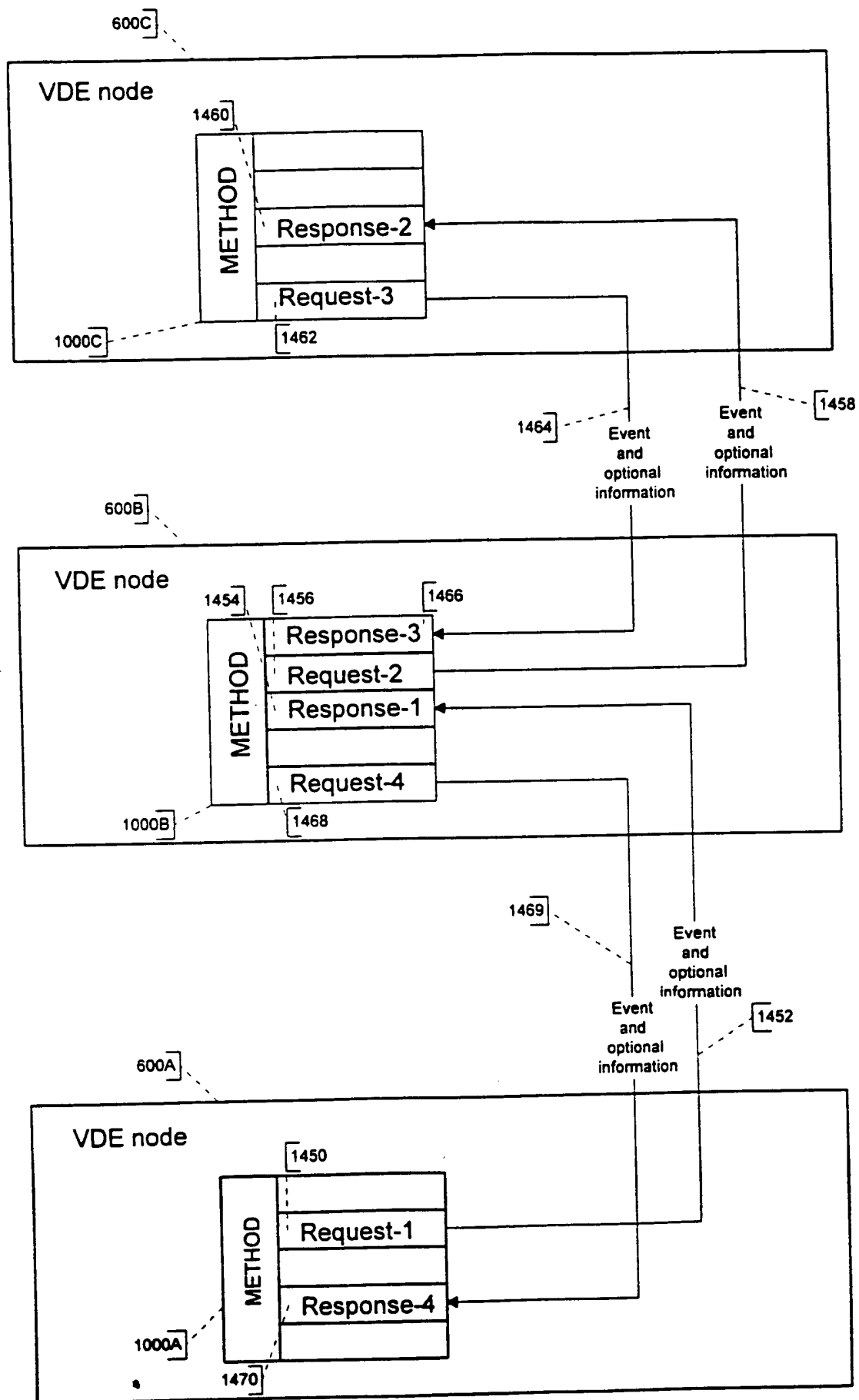


Figure 41c

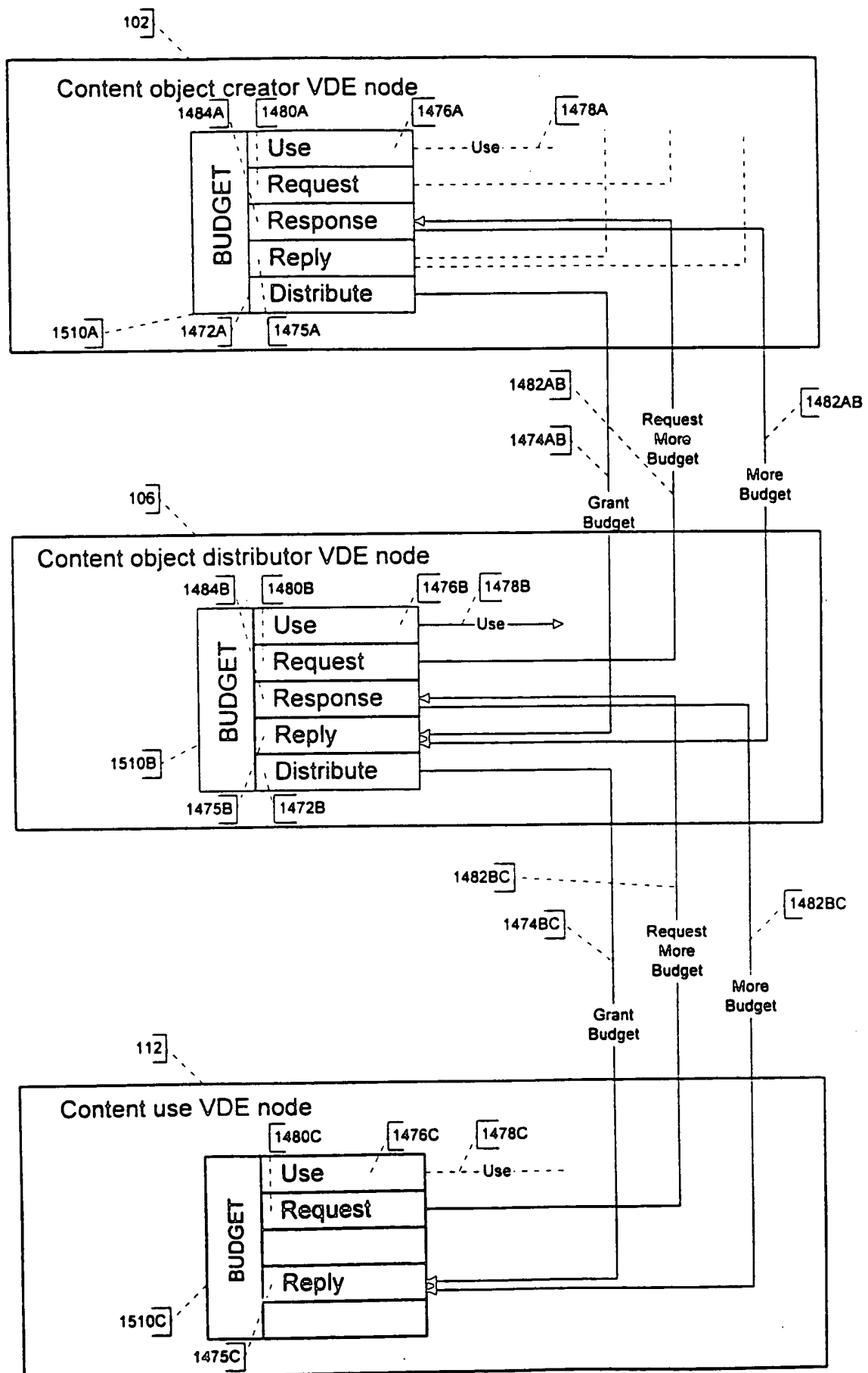


Figure 41d

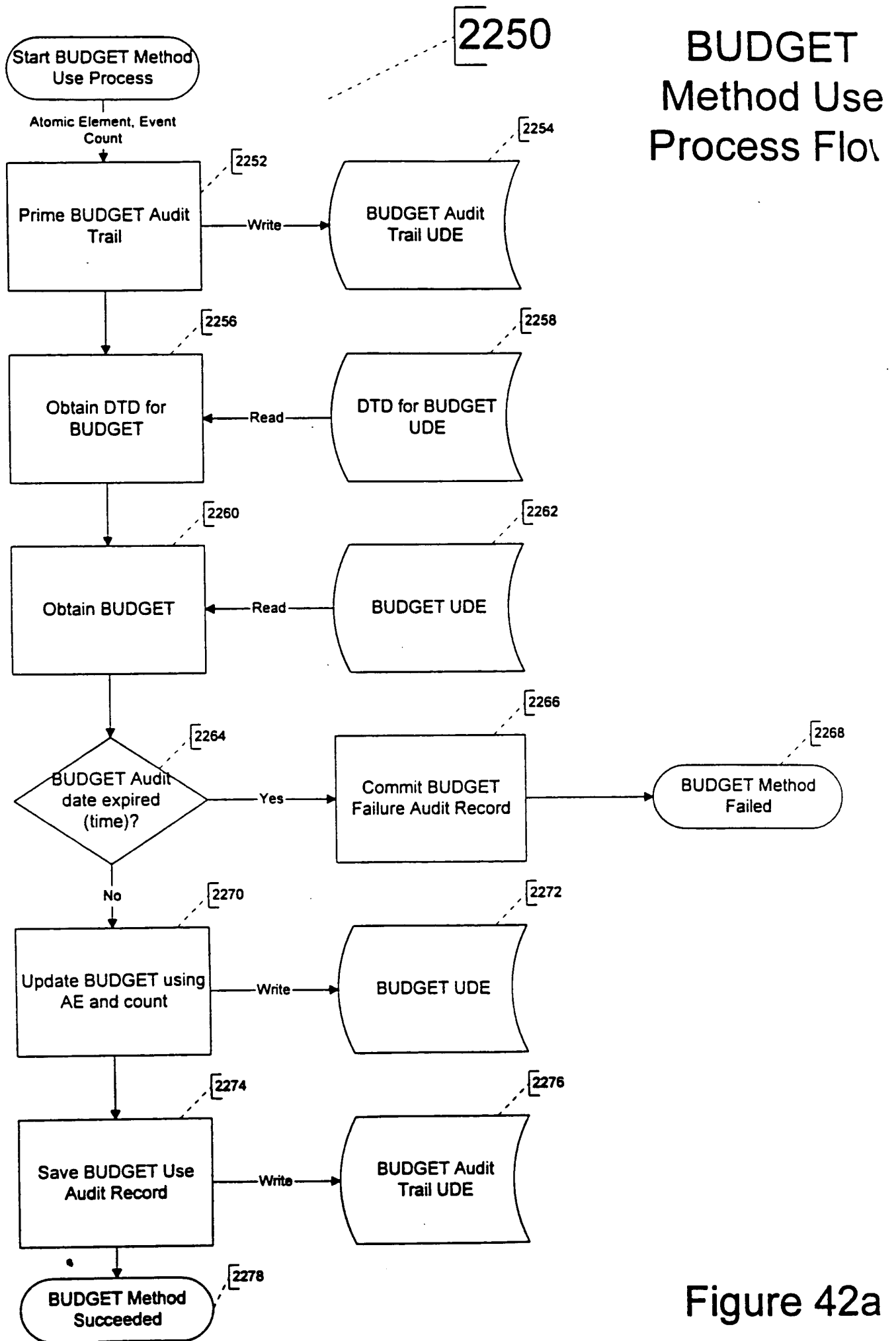


Figure 42a

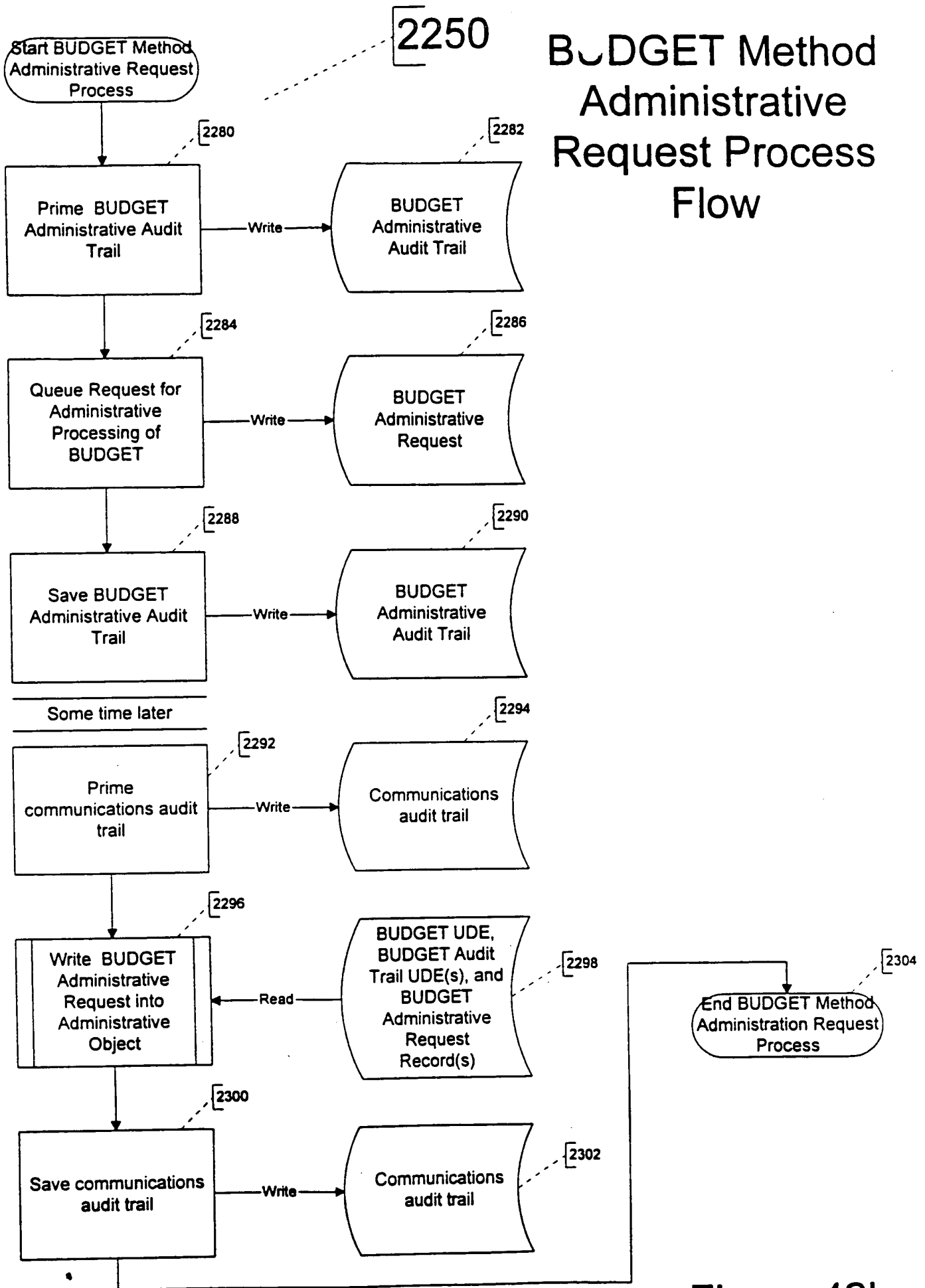
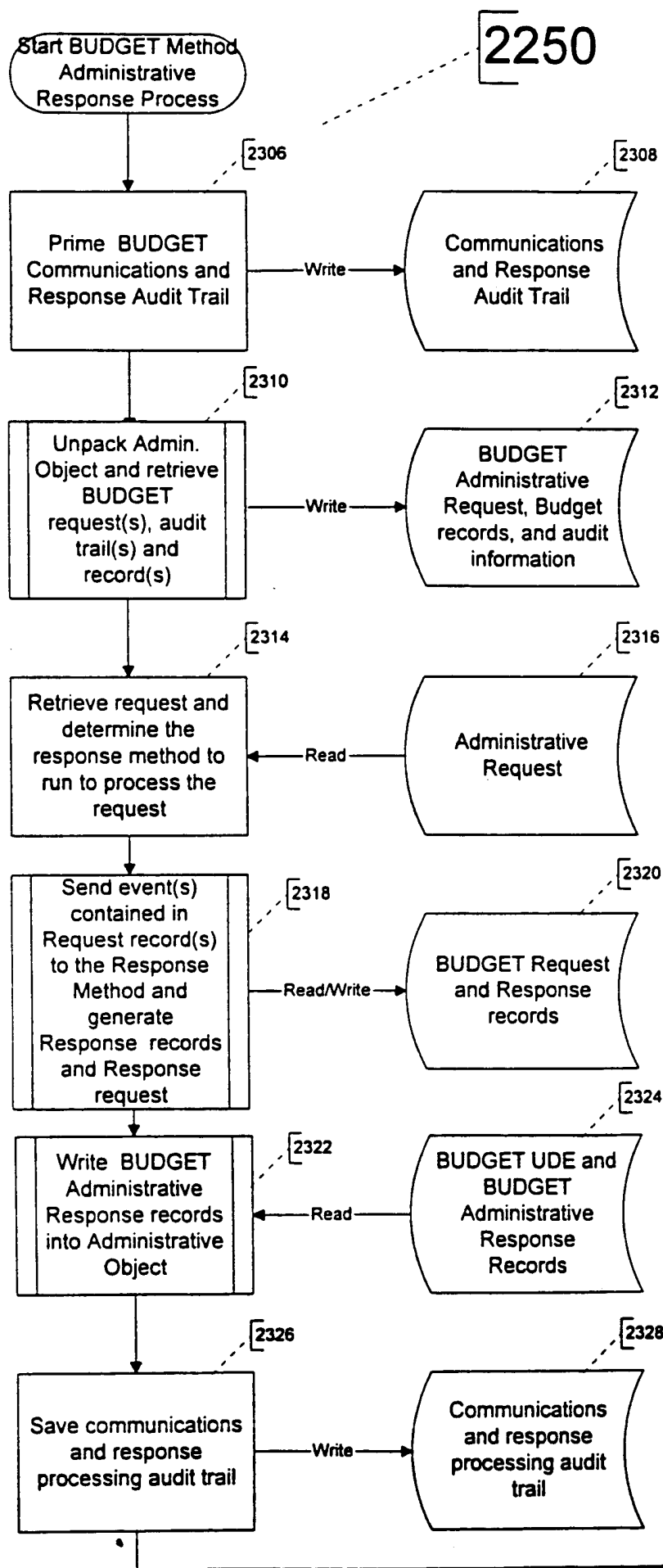


Figure 42b



BUDGET Method Administrative Response Process Flow

Figure 42c

Start BUDGET Method
Administrative Reply
Process

2250

BUDGET Method Administrative Reply Process Flow

Prime BUDGET
Administrative and
Communications Audit
Trail

2332

Write

BUDGET
Administrative and
Communications
Audit Trail

2334

Extract Response
Records and
Requests from
Administrative
Object and write
Reply records to
the secure
database

2336

Write

BUDGET Reply
Records and
Requests

2338

Save BUDGET
Administrative and
Communications Audit
Trail

2340

Write

BUDGET
Administrative and
Communications
Audit Trail

2341

Some time later

Prime audit trail (if
required)

2342

Write

Audit Trail UDE

2343

Retrieve Reply record
and determine method
required to process it

2344

Read

BUDGET Reply
records

2346

Send event(s)
contained in Reply
record(s) to the
Reply method and
generate / update
database records

2348

Read/Write

BUDGET records

2350

Delete Reply record(s)
from database

2352

Delete

BUDGET Reply
Record(s)

2353

Audit Trail UDE

2355

Write

Prime audit trail (if
required)

2354

End BUDGET Method
Administration Reply
Process

2356

Figure 42d

REGISTER Method Use Process Flo

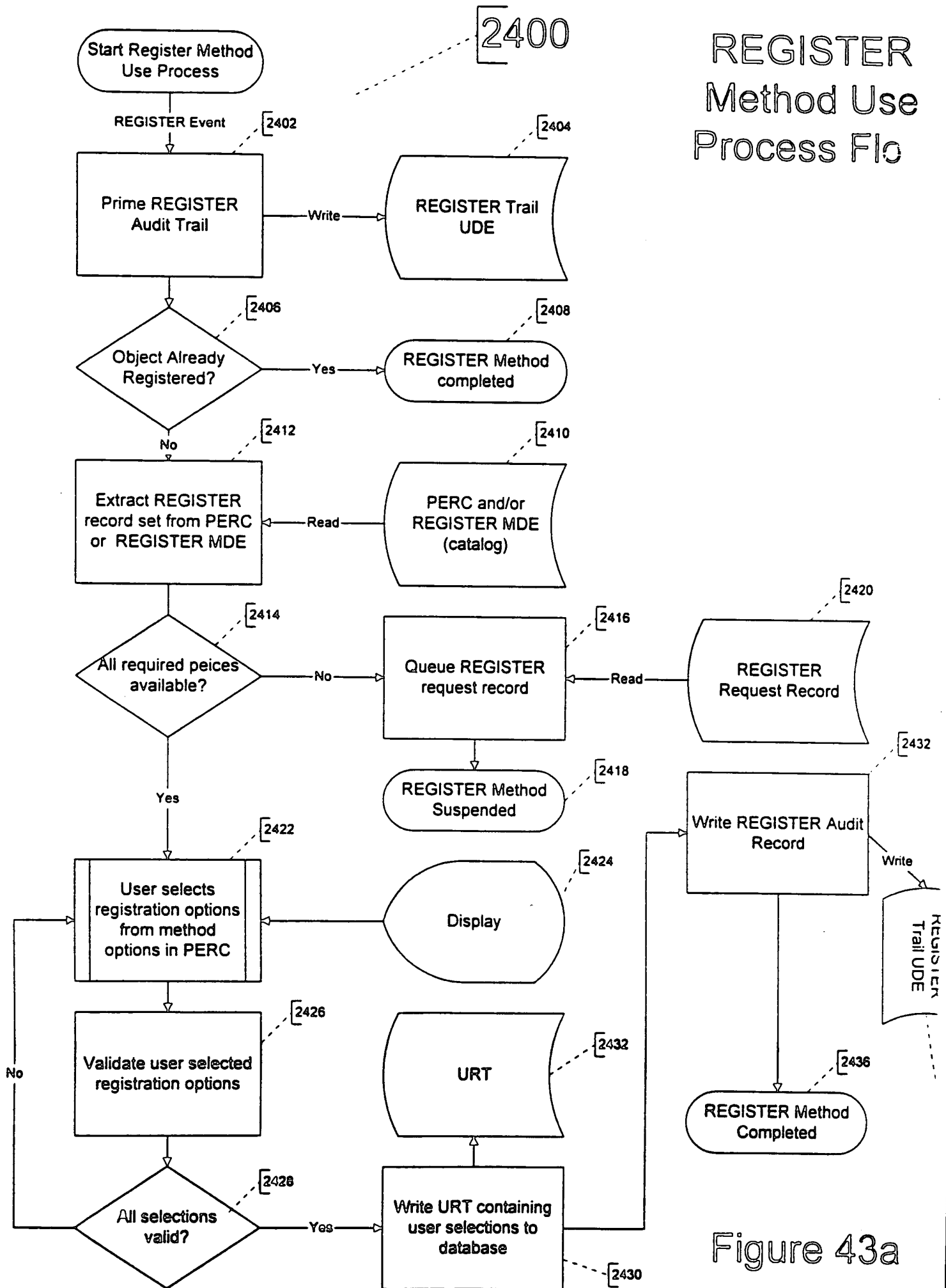


Figure 43a

REGISTER Method Administrative Request Process Flow

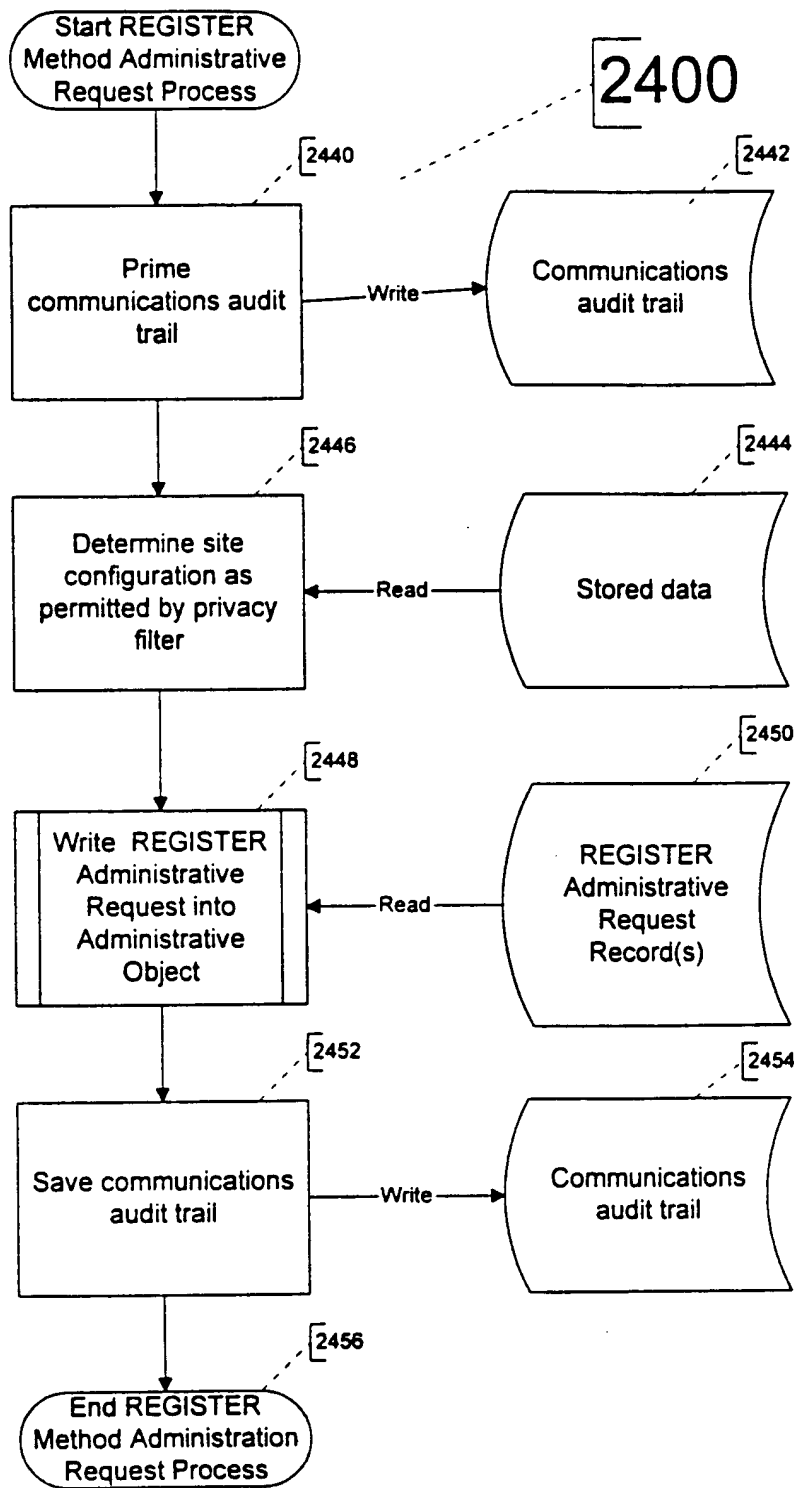


Figure 43b

REGISTER Method Administrative Response Process Flow

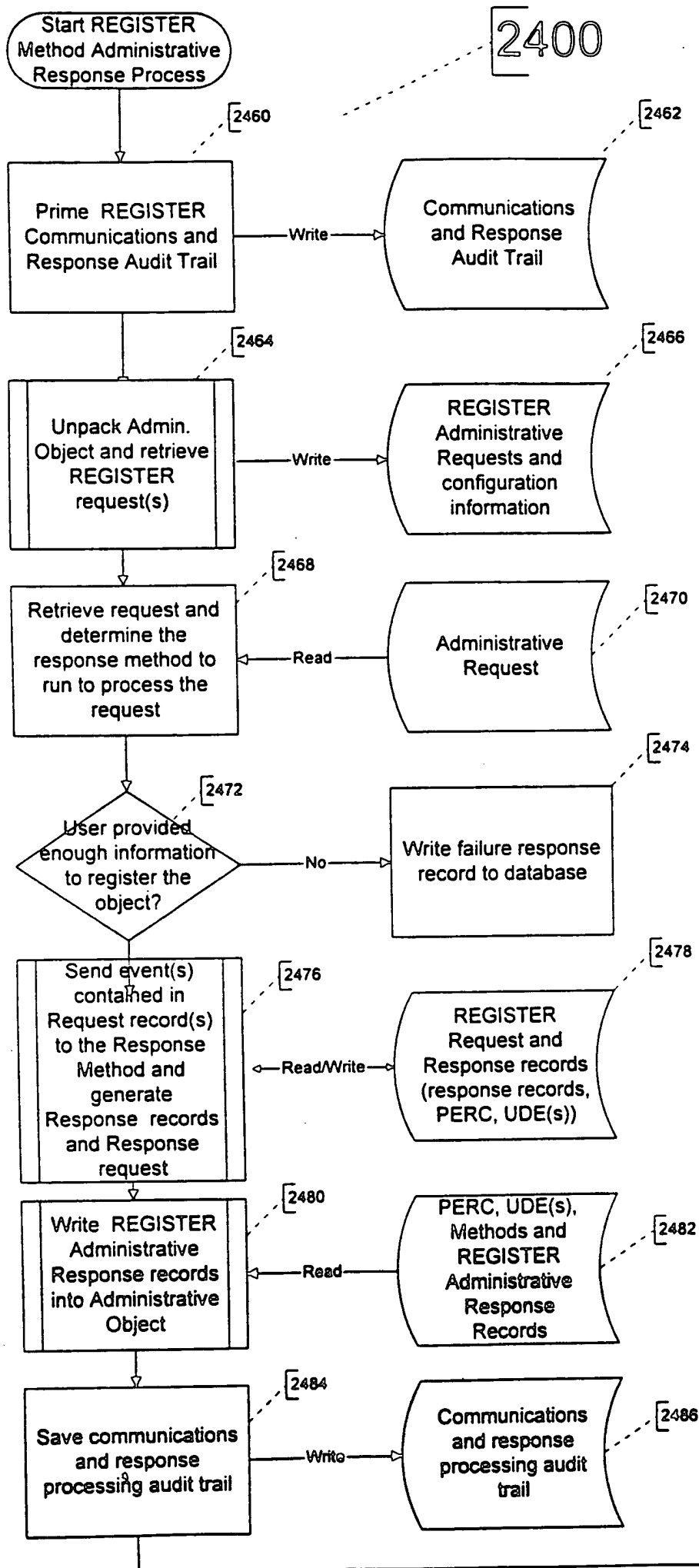


Figure 43c

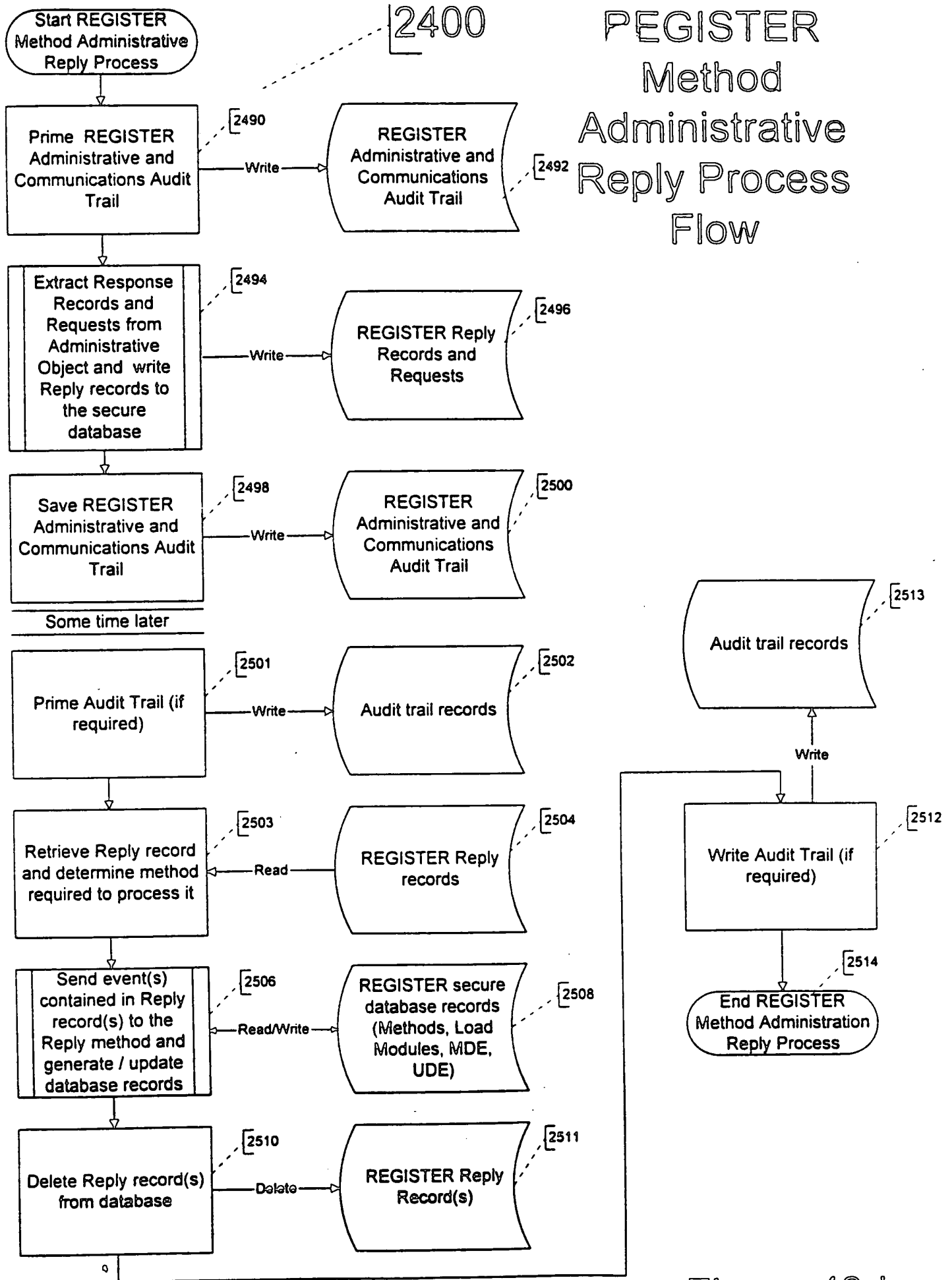


Figure 43d

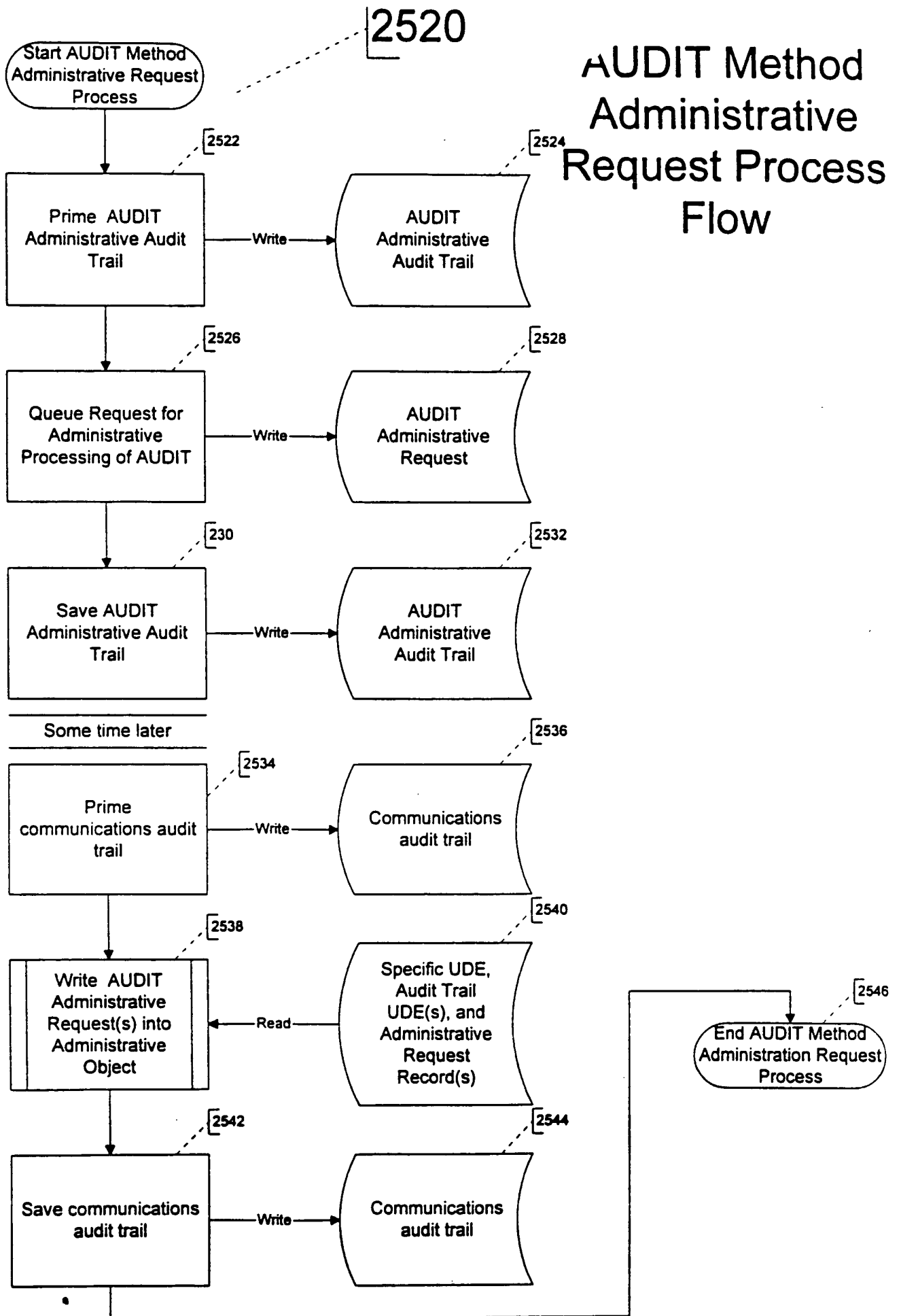


Figure 44a

AUDIT Method Administrative Response Process Flow

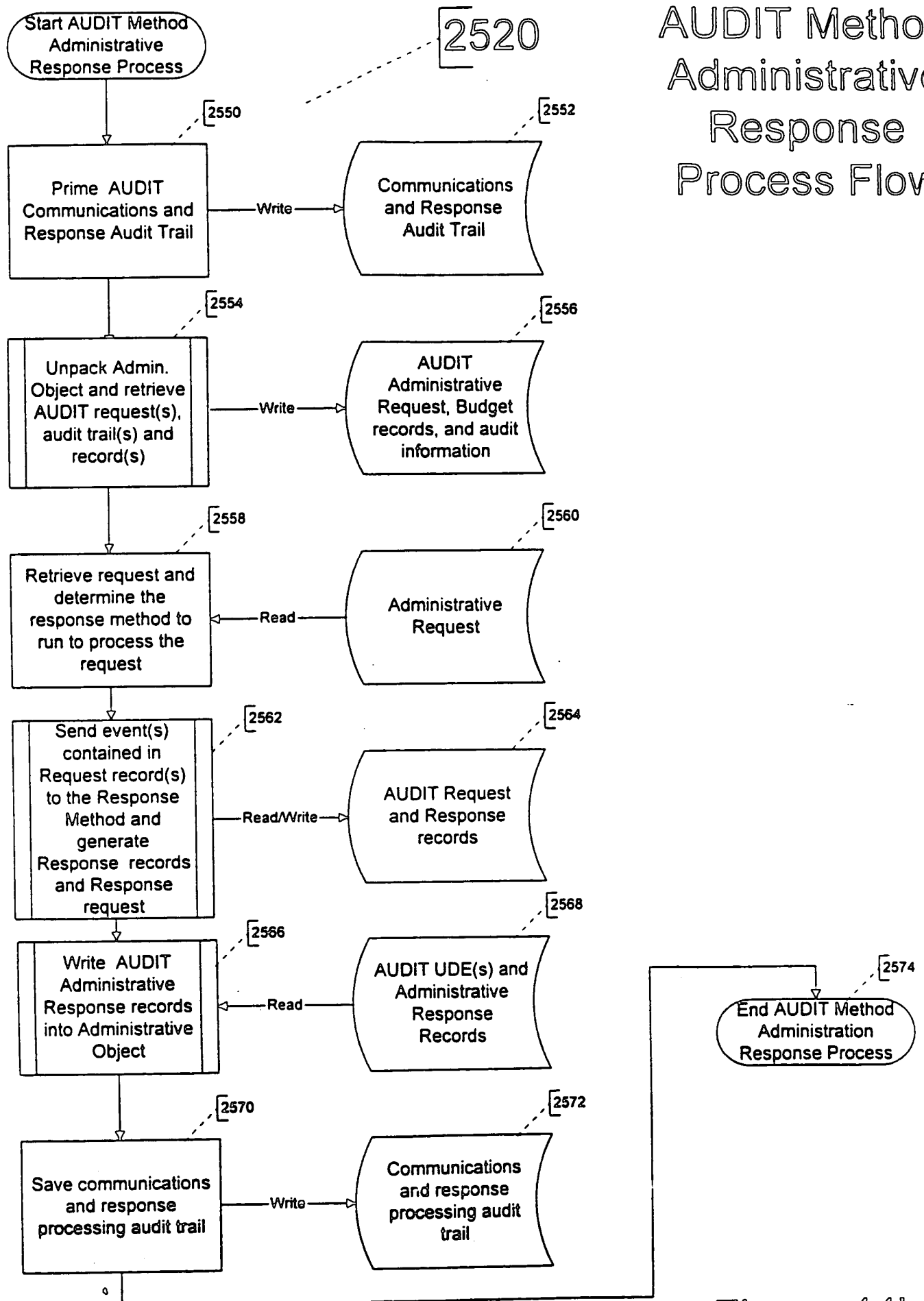


Figure 44b

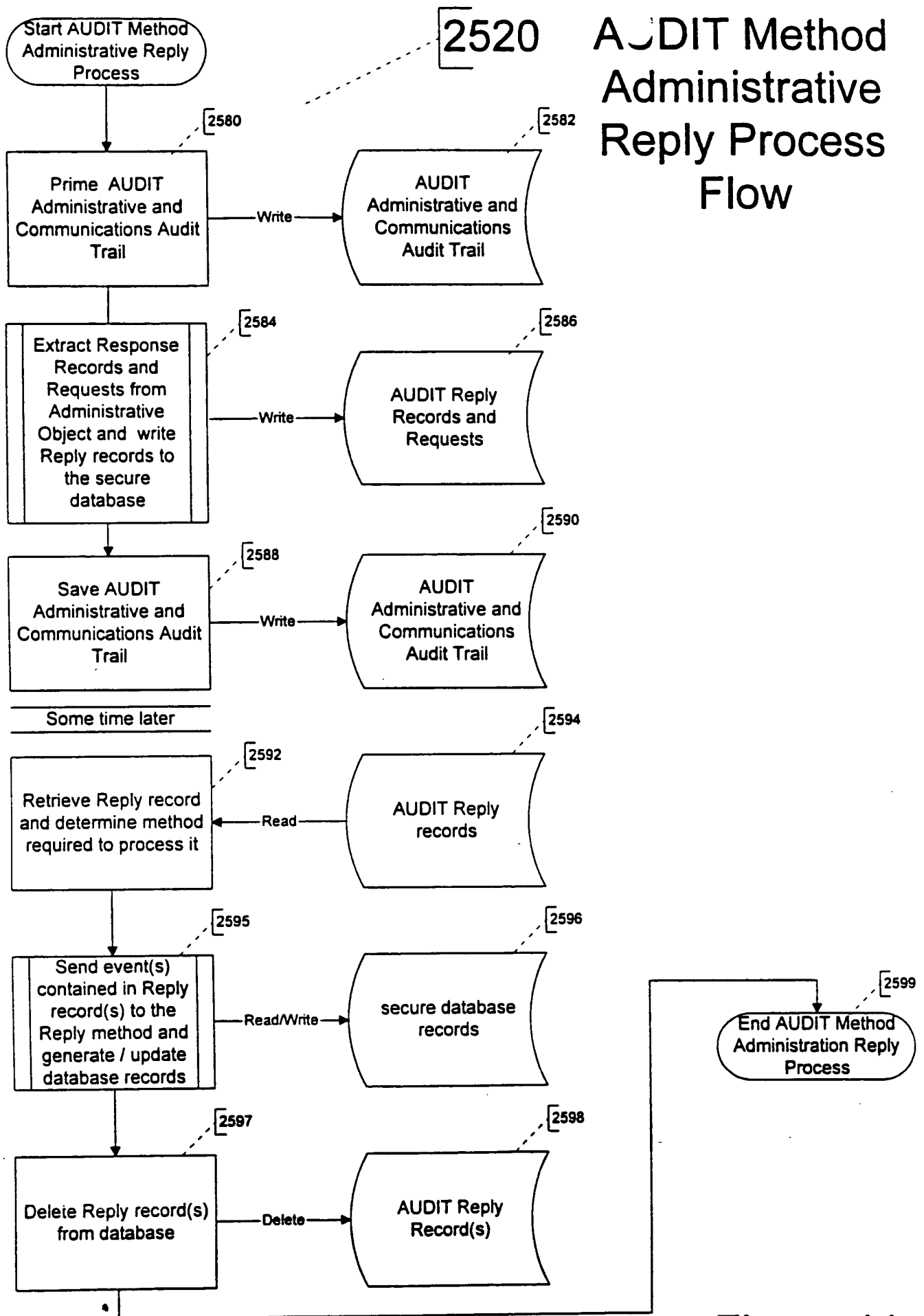


Figure 44c

FIG. 45

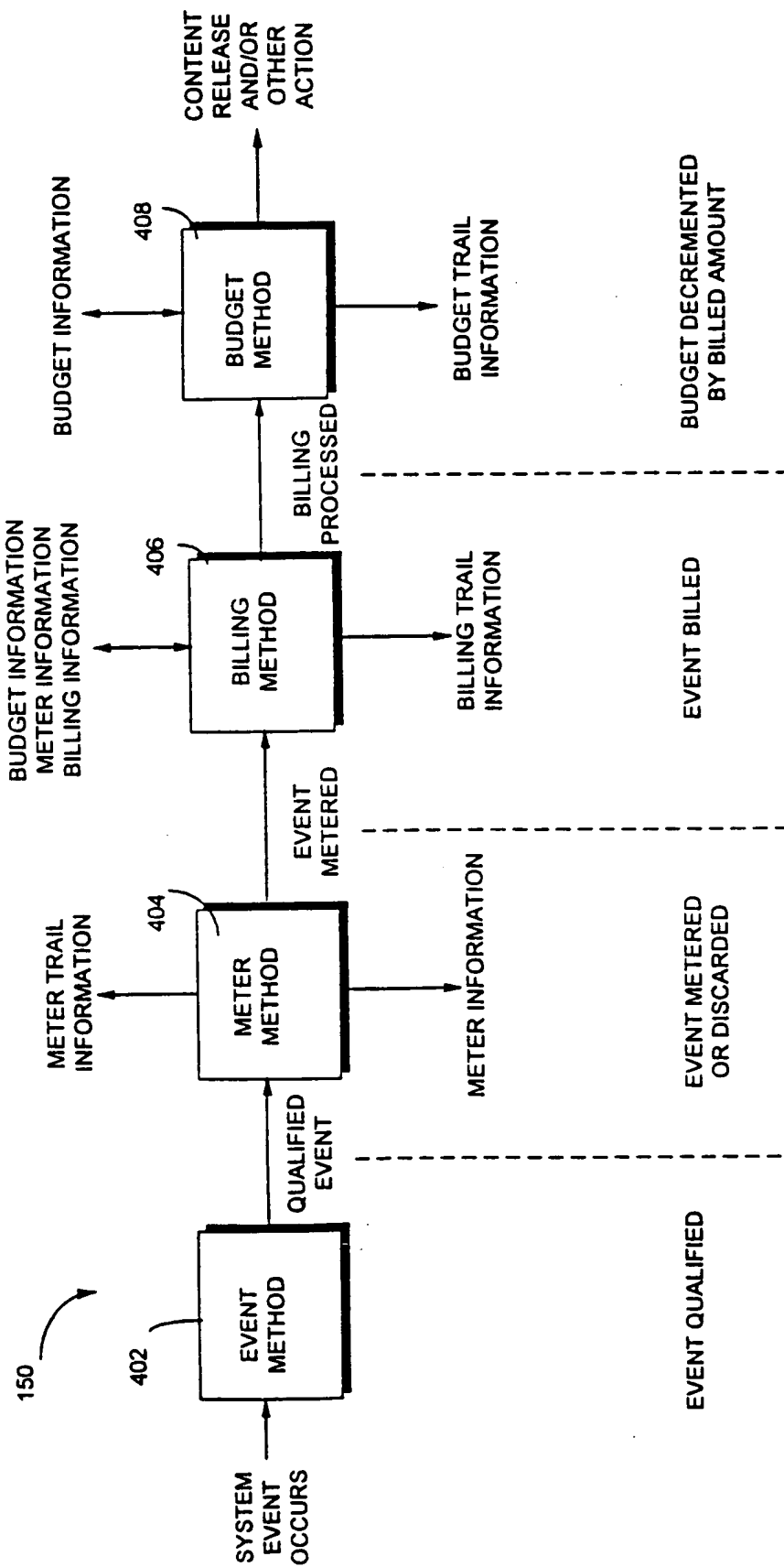


FIG. 46

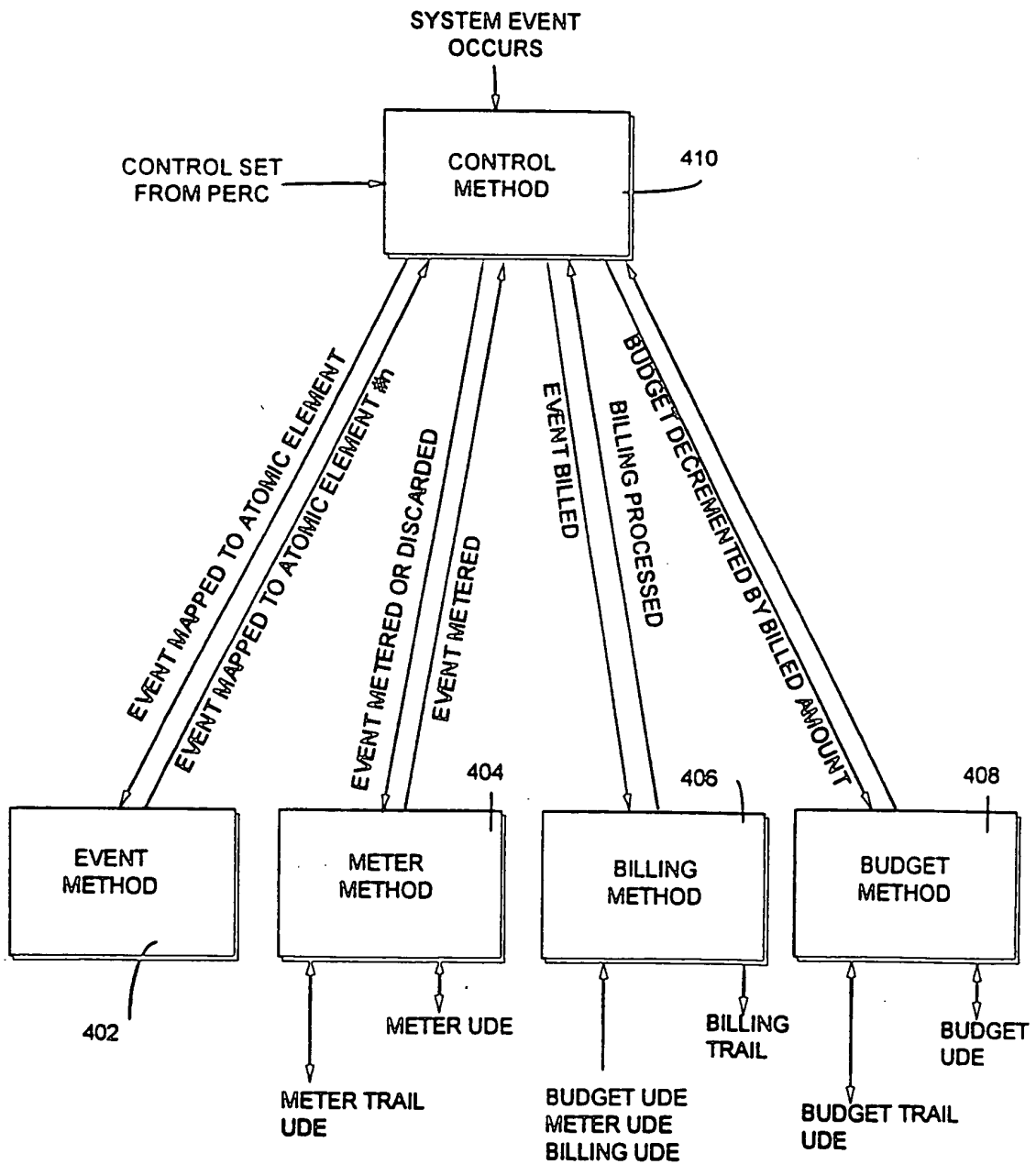
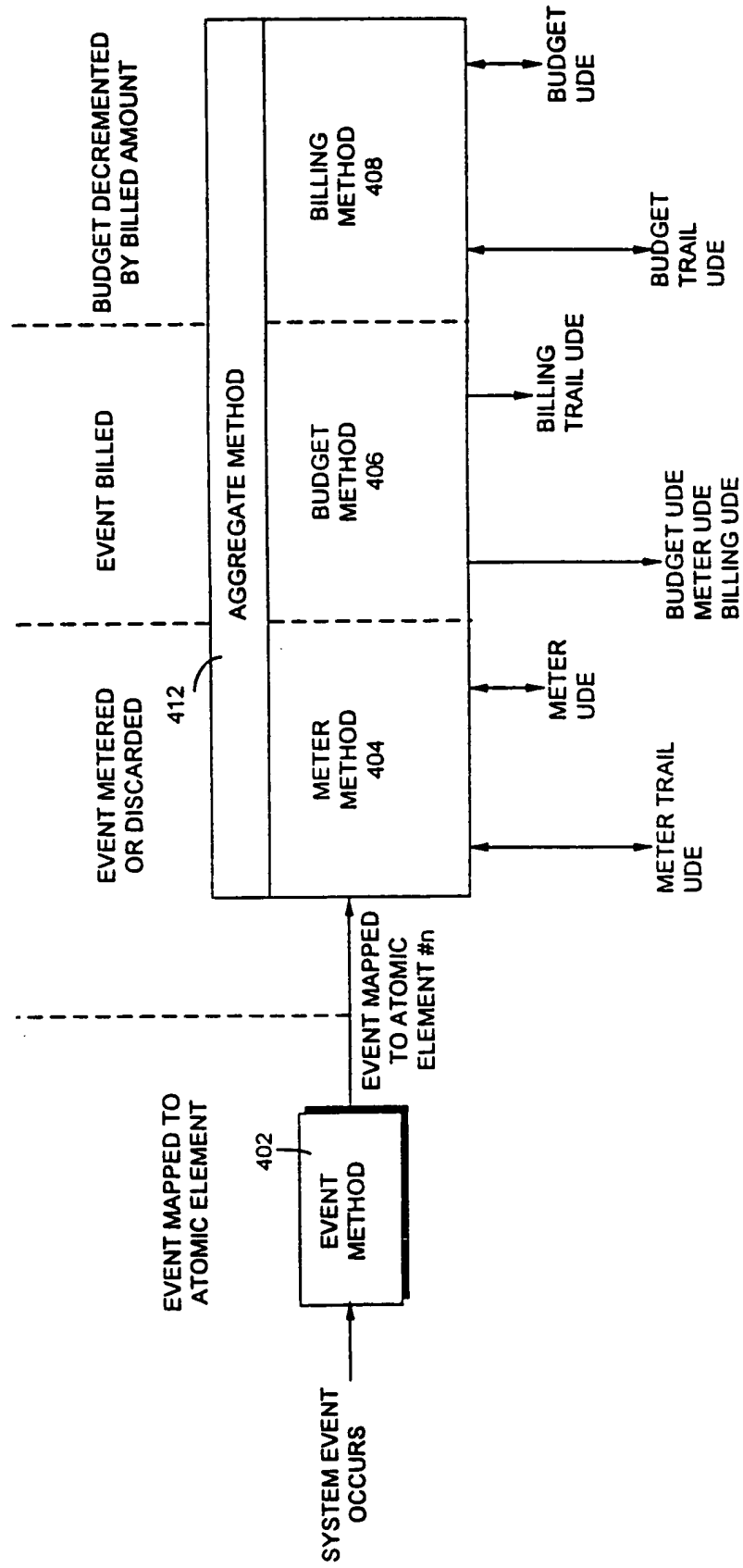


FIG. 47



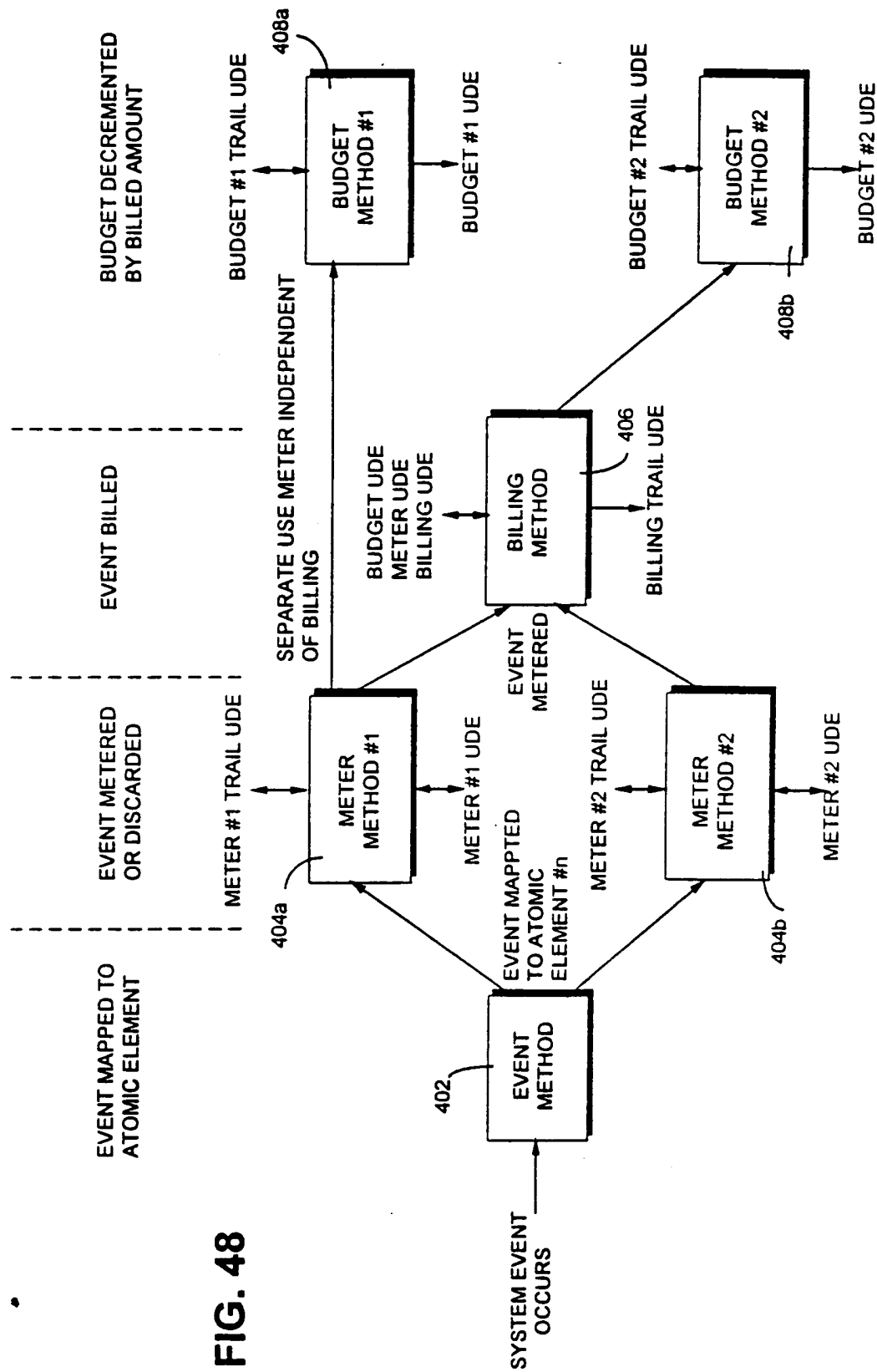


FIG. 48

OPEN Method Use Process Flow

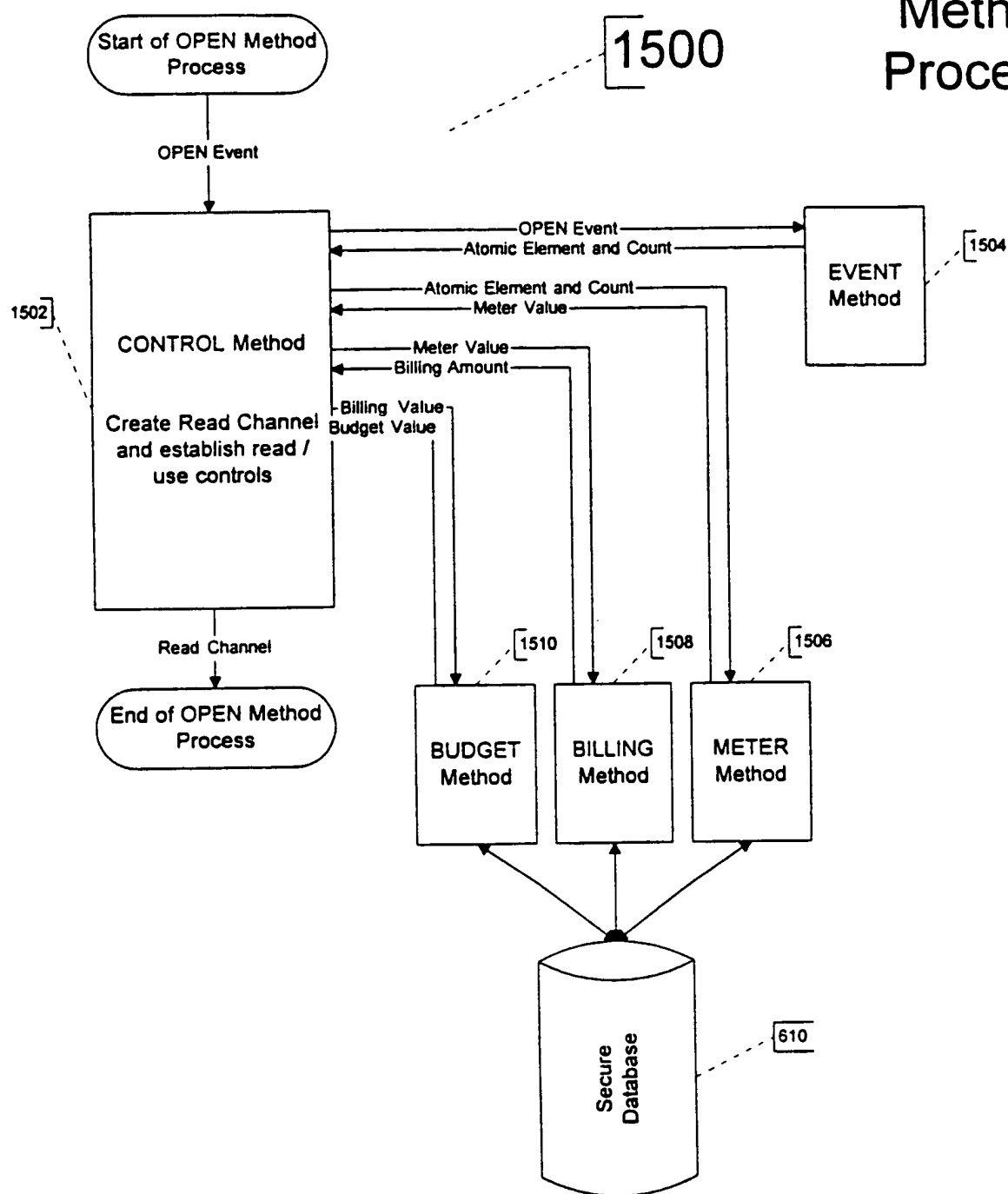


Figure 49

1500

1502

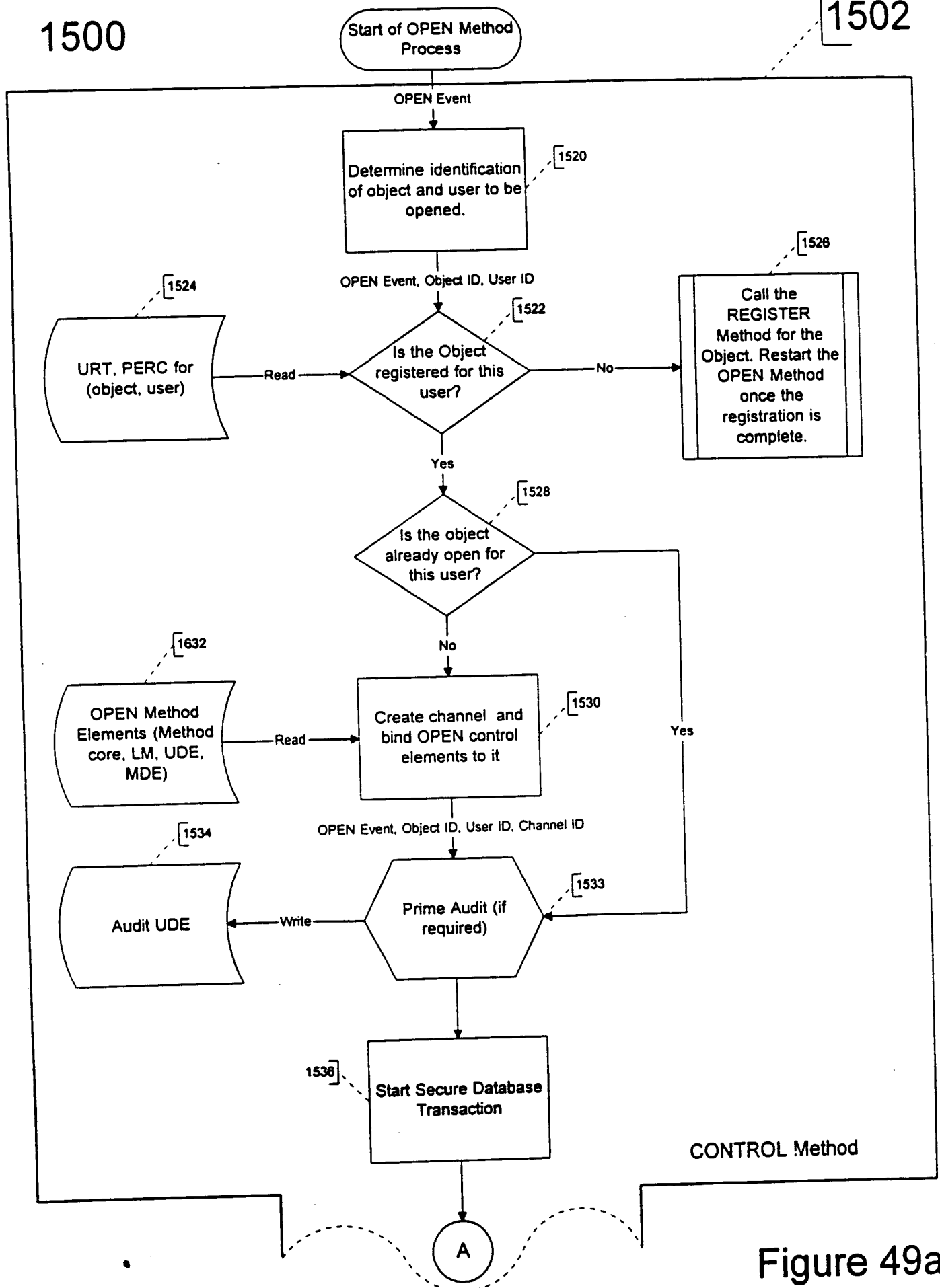


Figure 49a

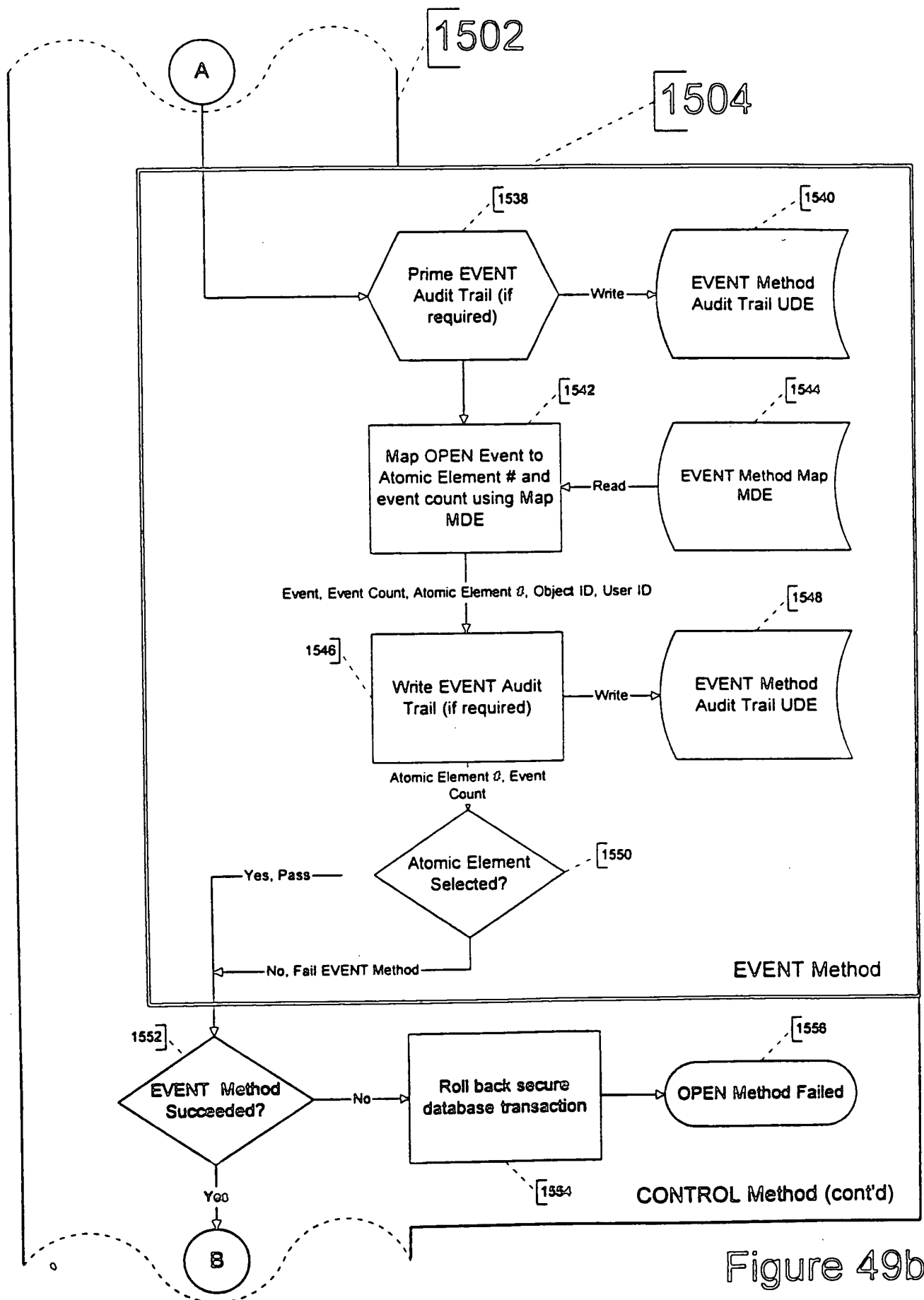


Figure 49b

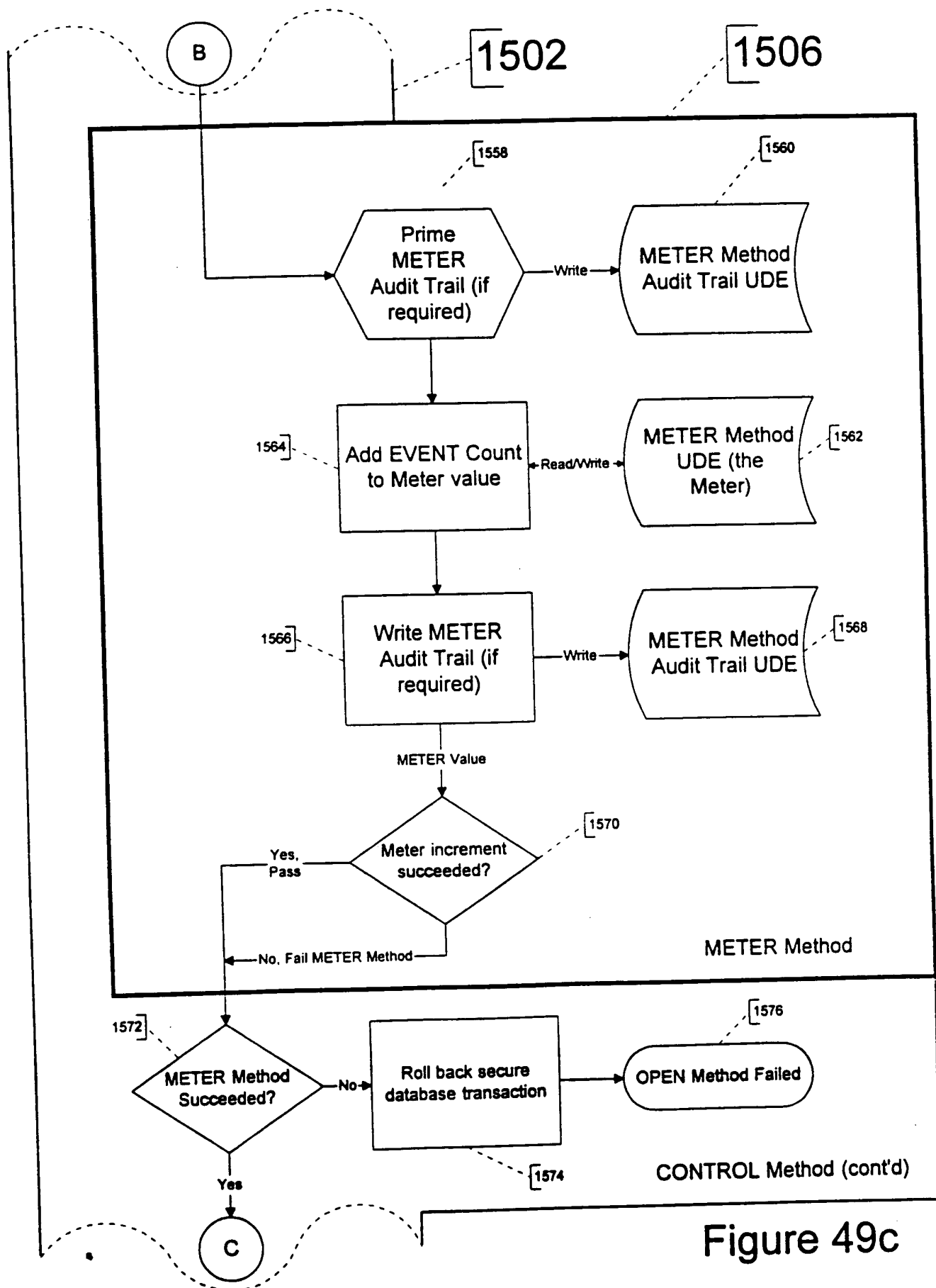
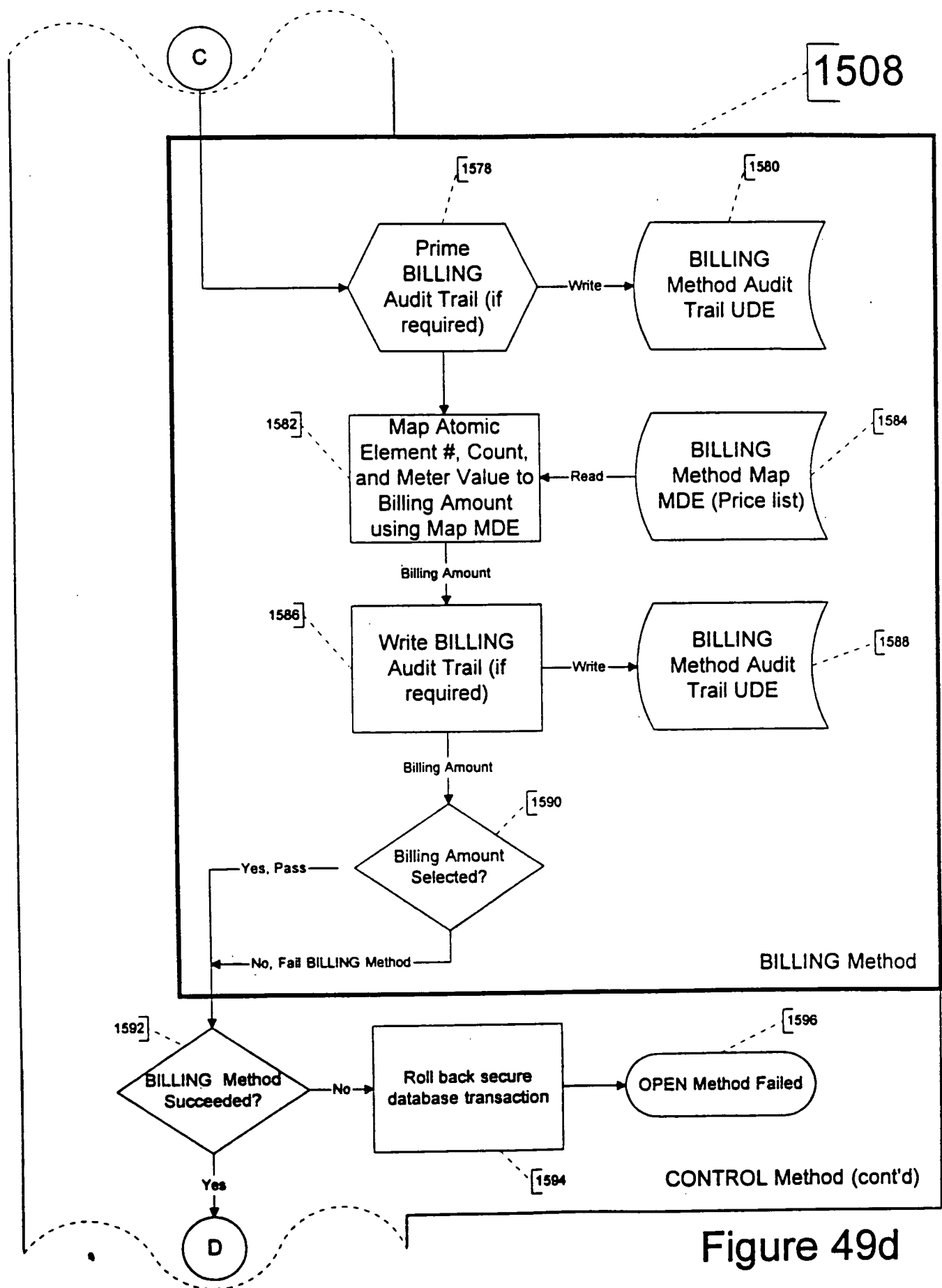


Figure 49c



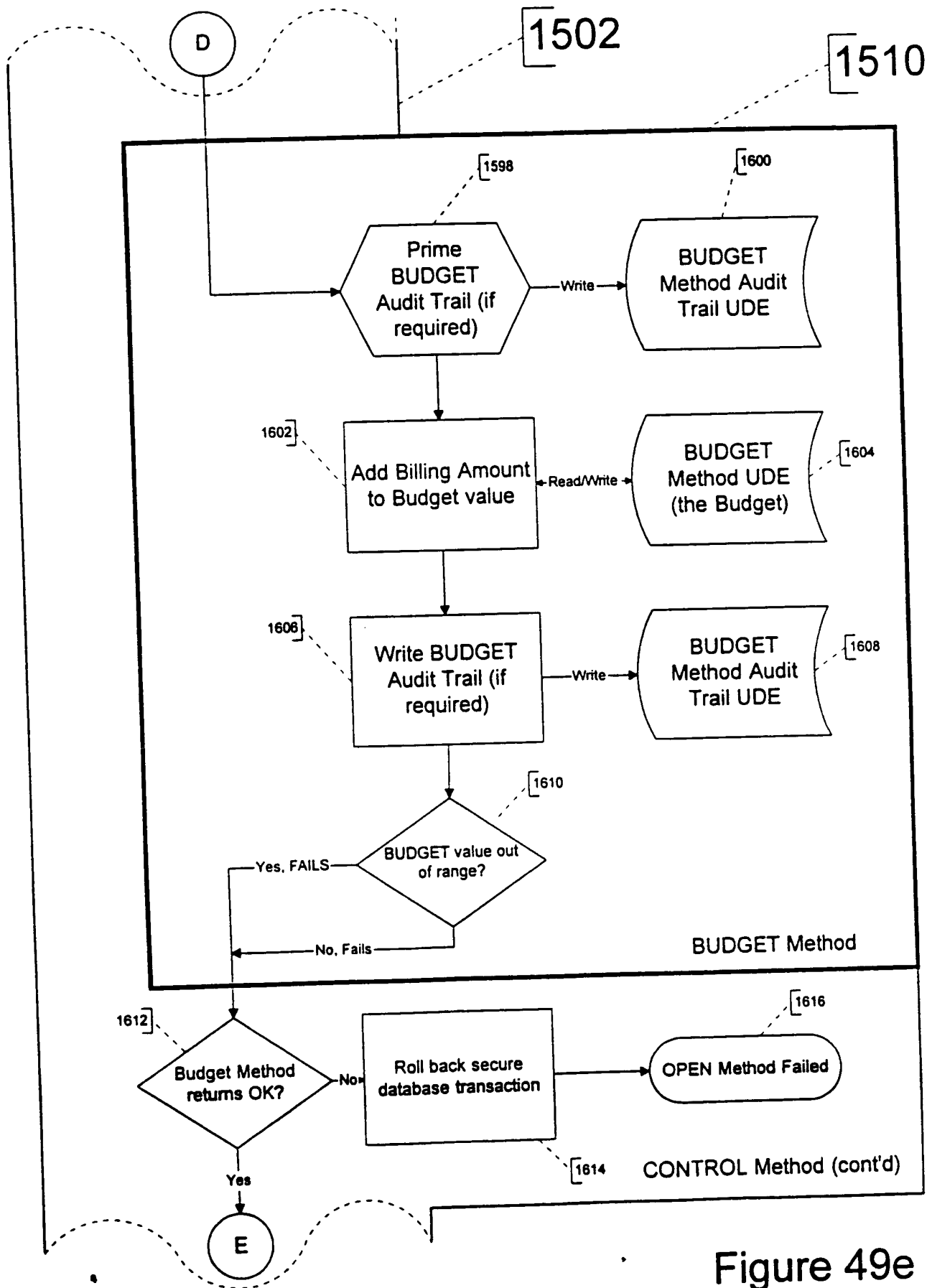


Figure 49e

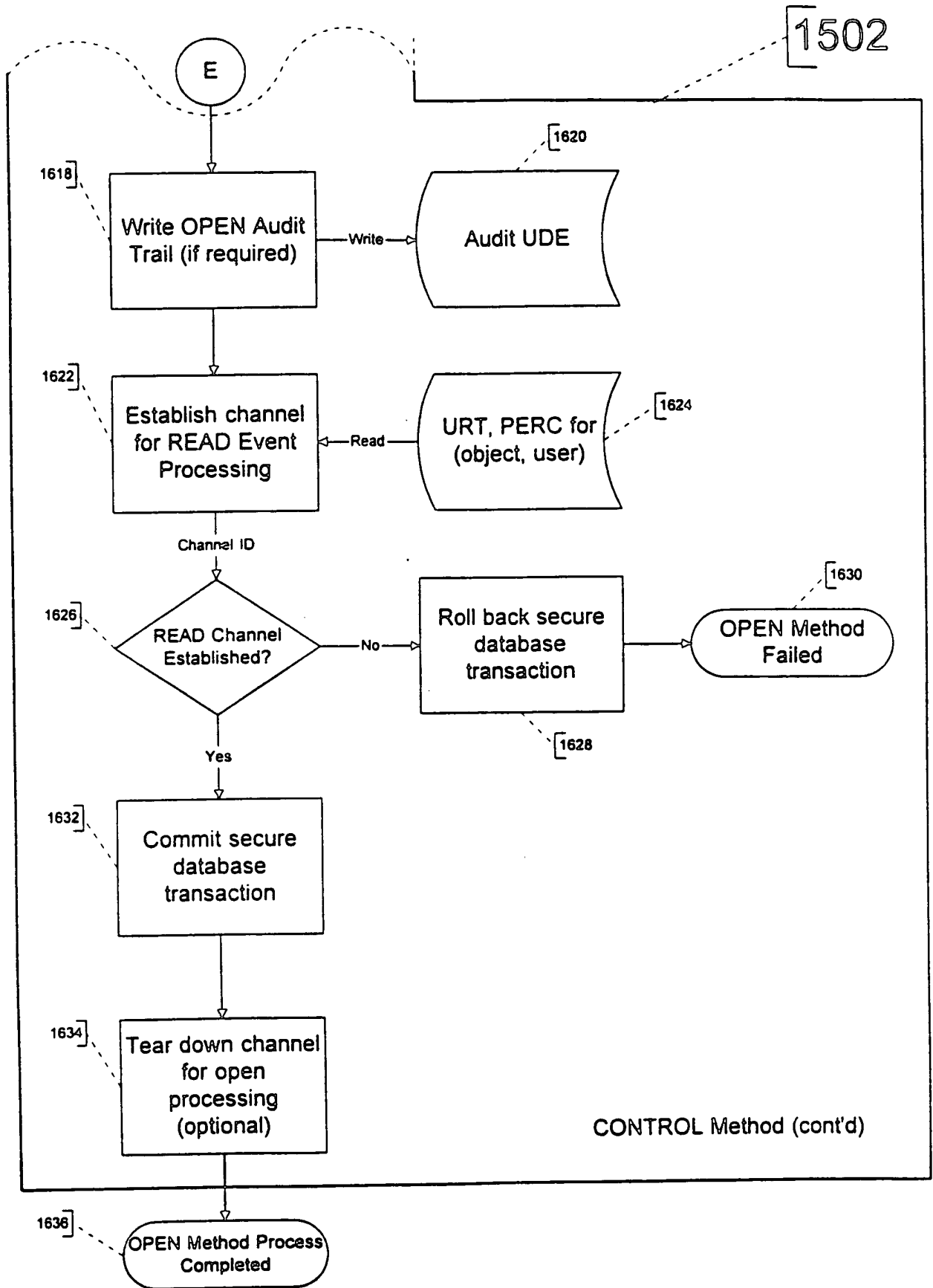


Figure 49f

READ Method Use Process Flow

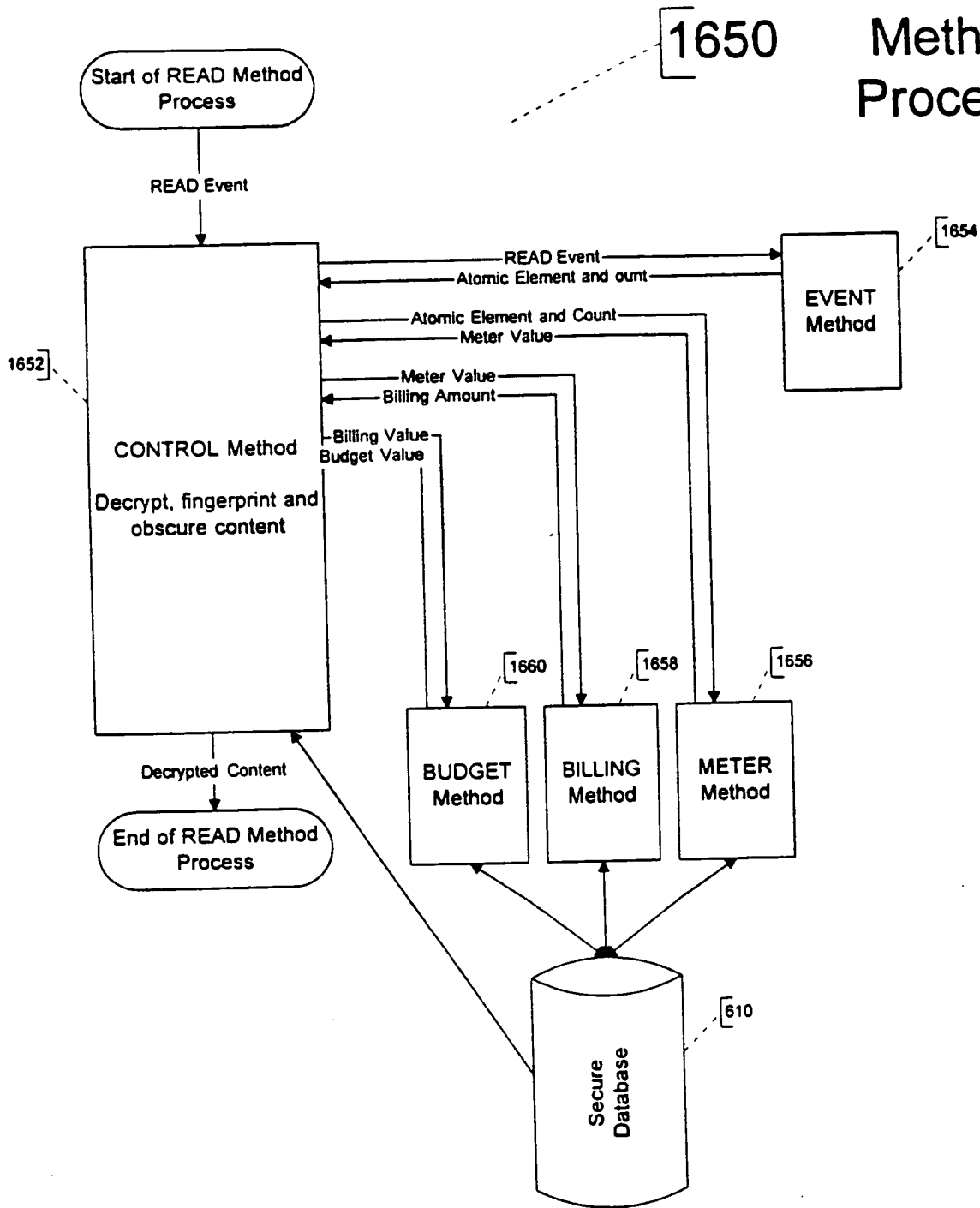


Figure 50

1650

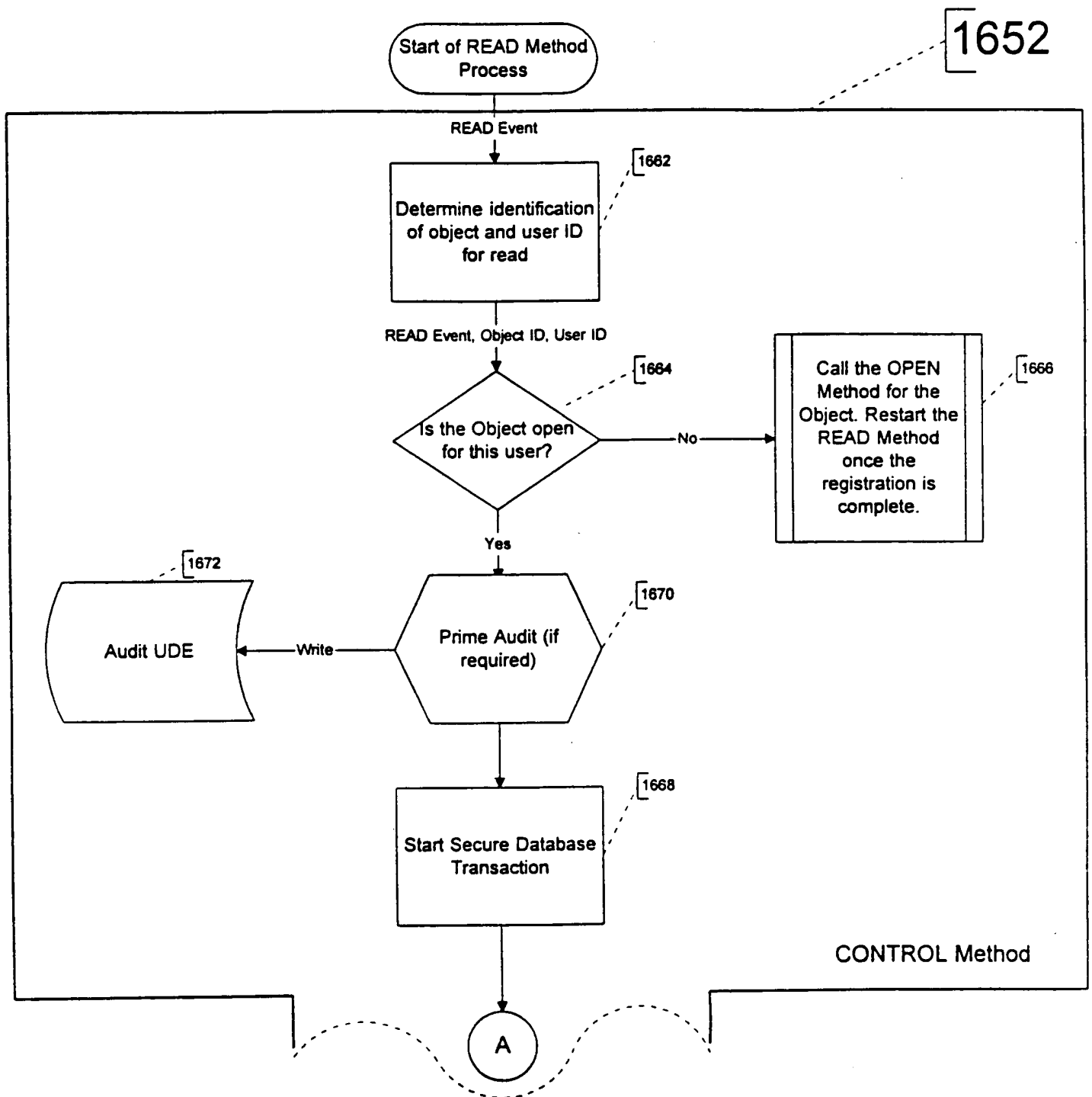
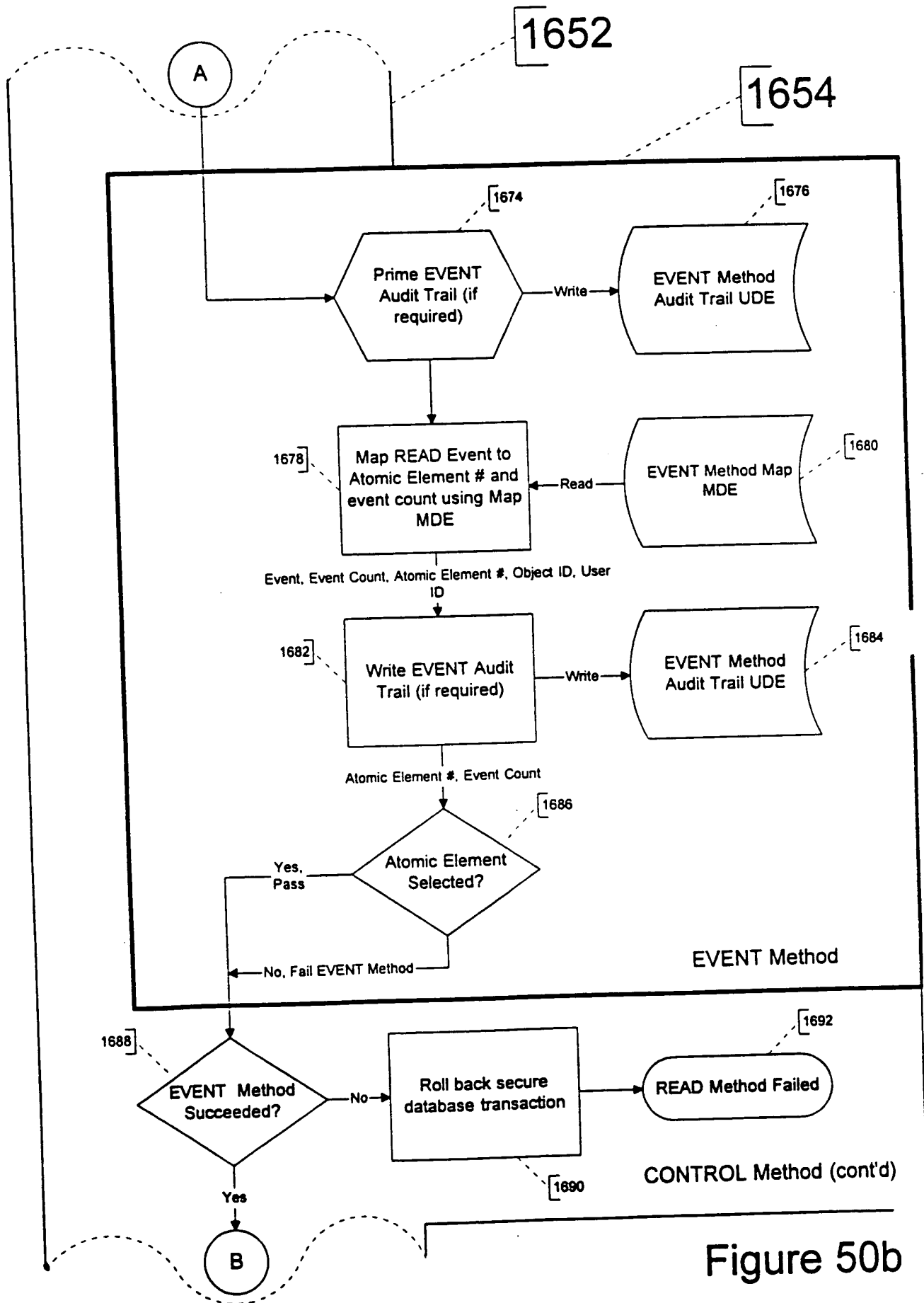


Figure 50a



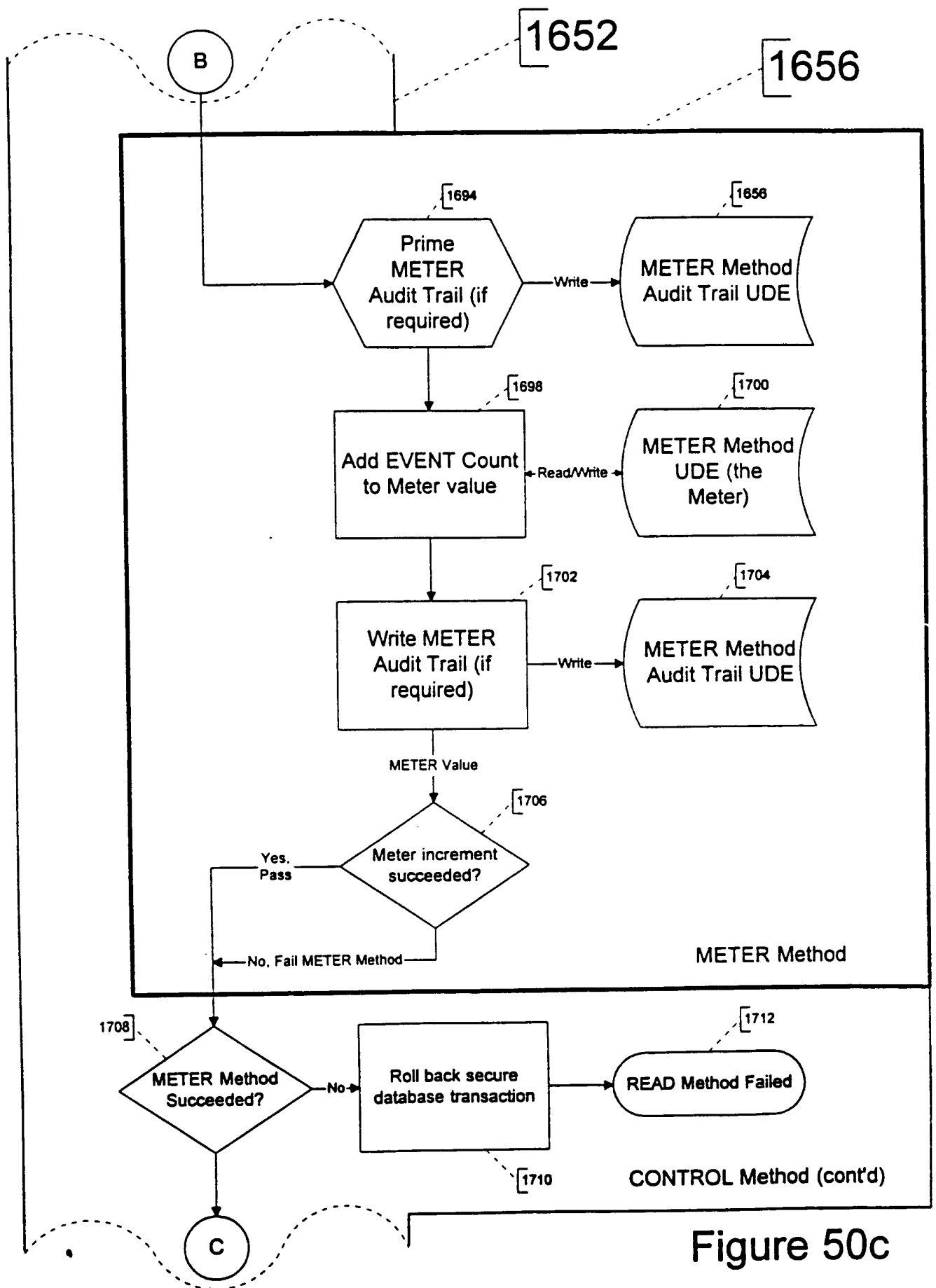


Figure 50c

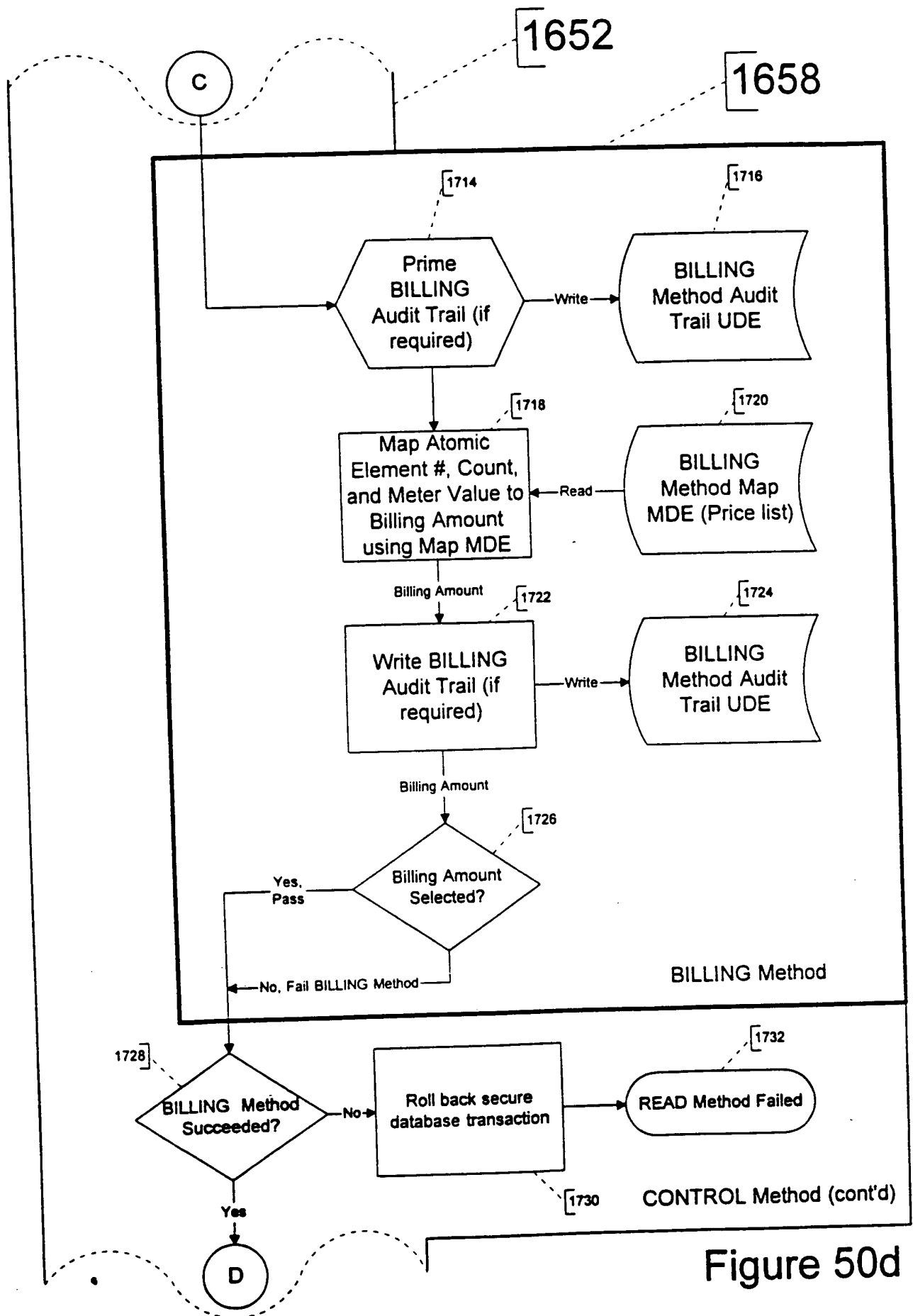


Figure 50d

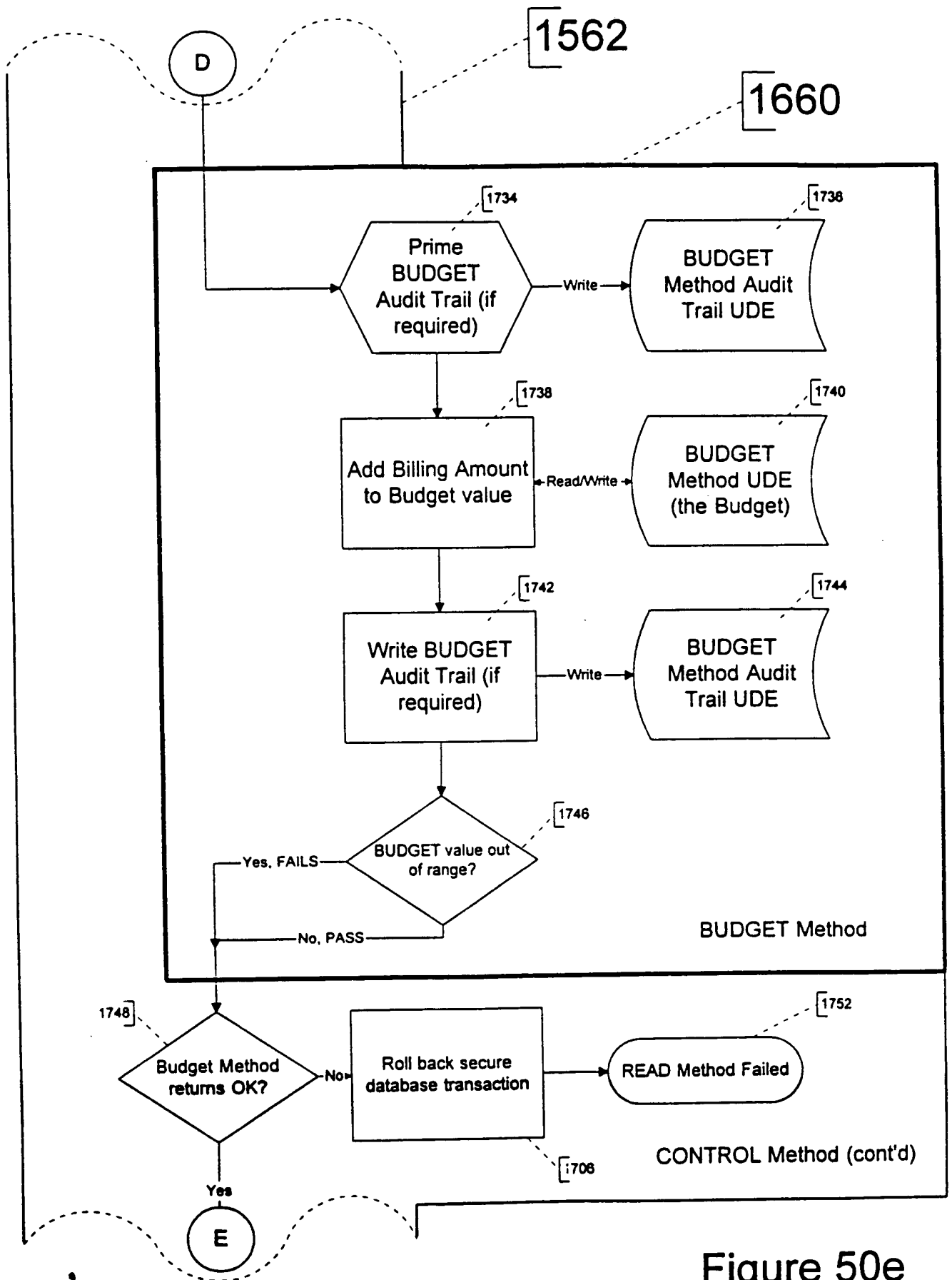
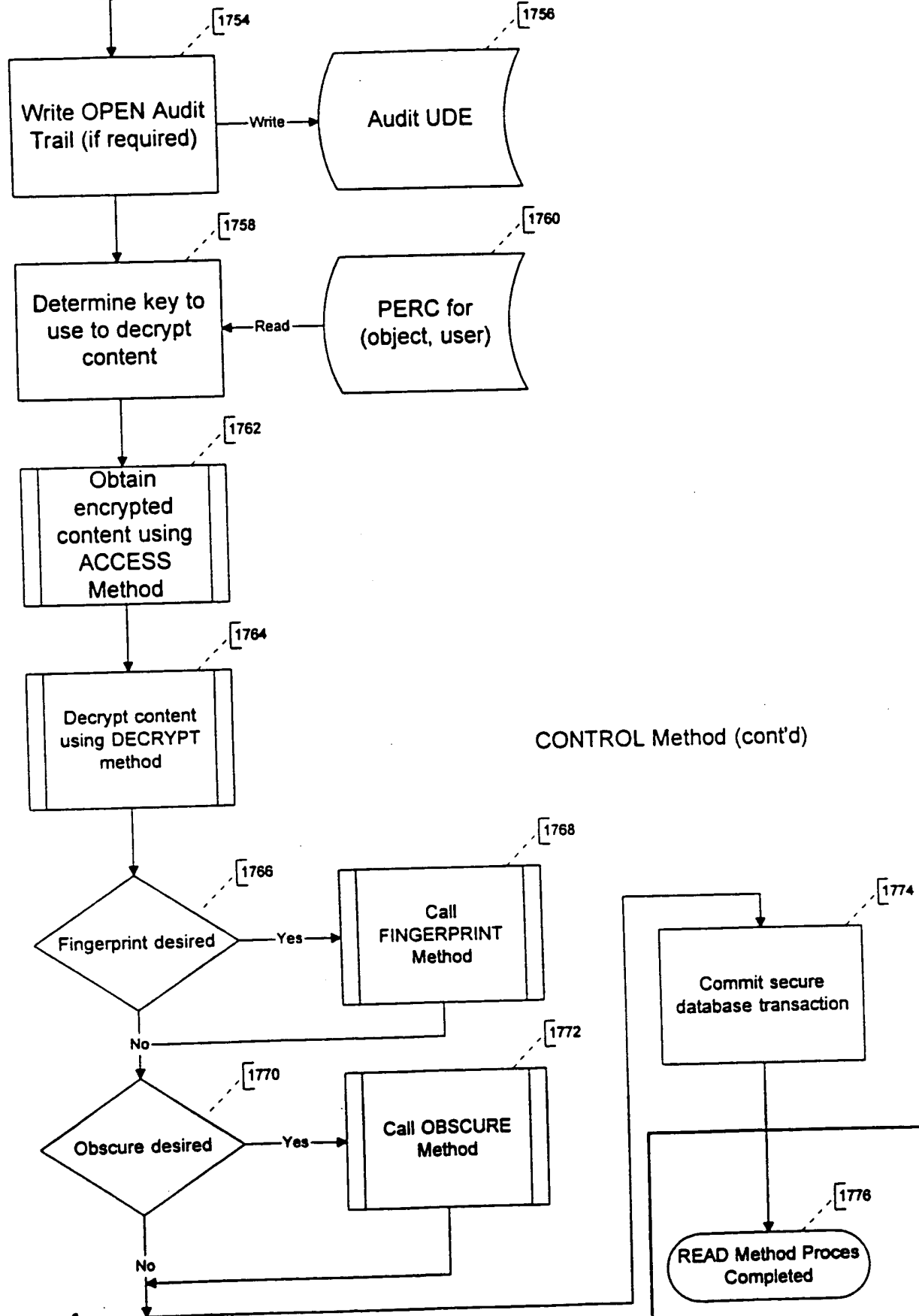


Figure 50e



WRITE Method Use Process Flow

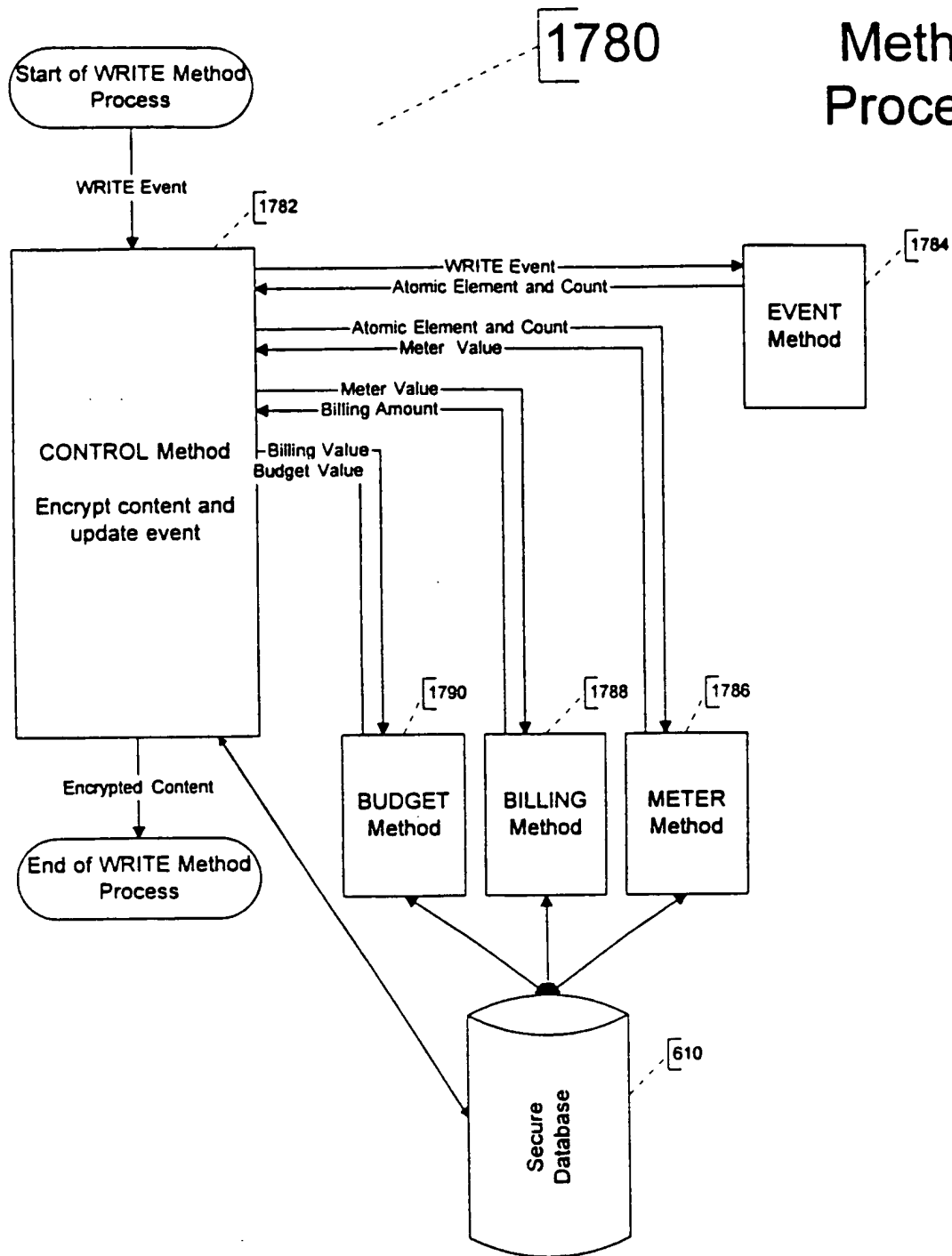


Figure 51

1780

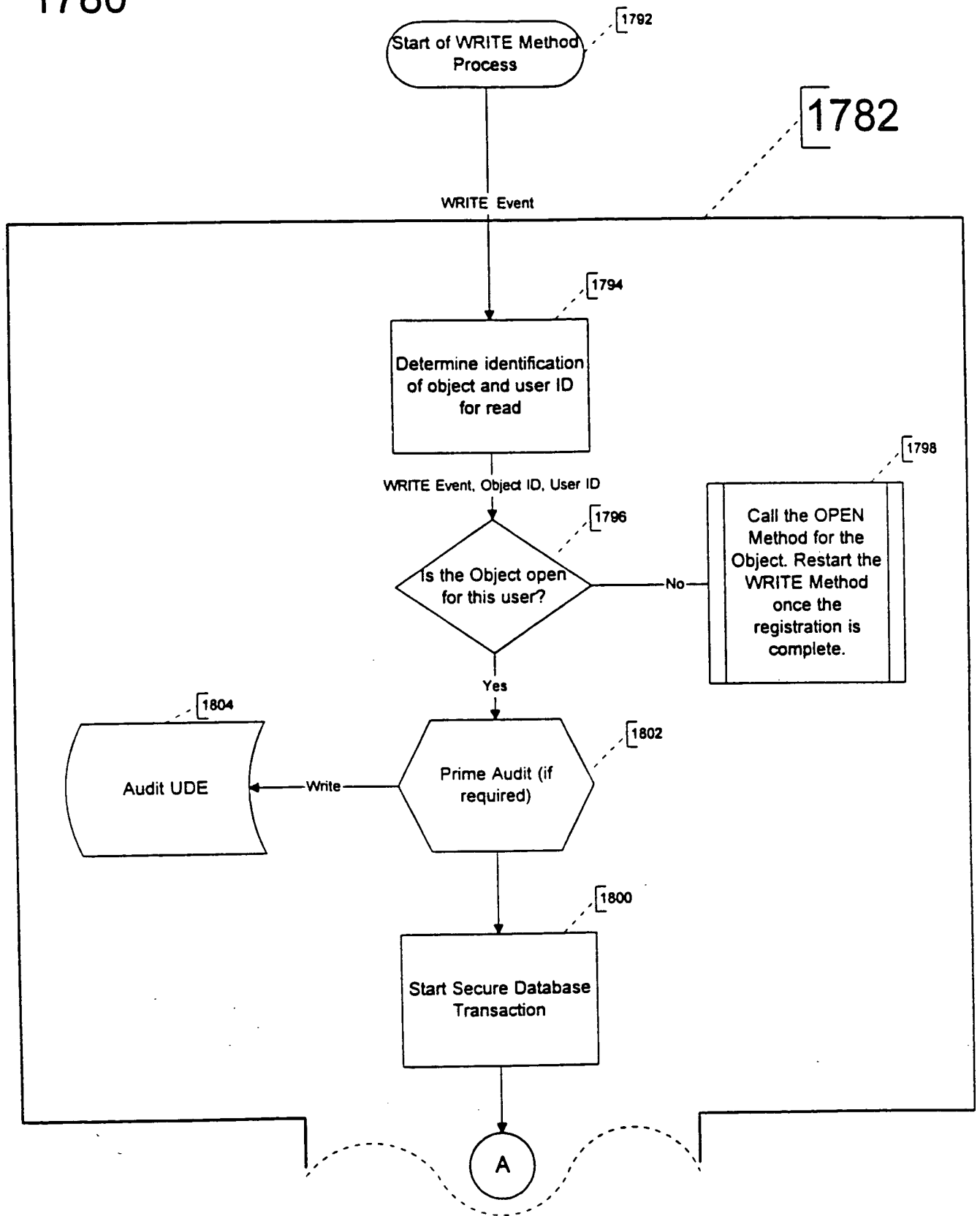


Figure 51a

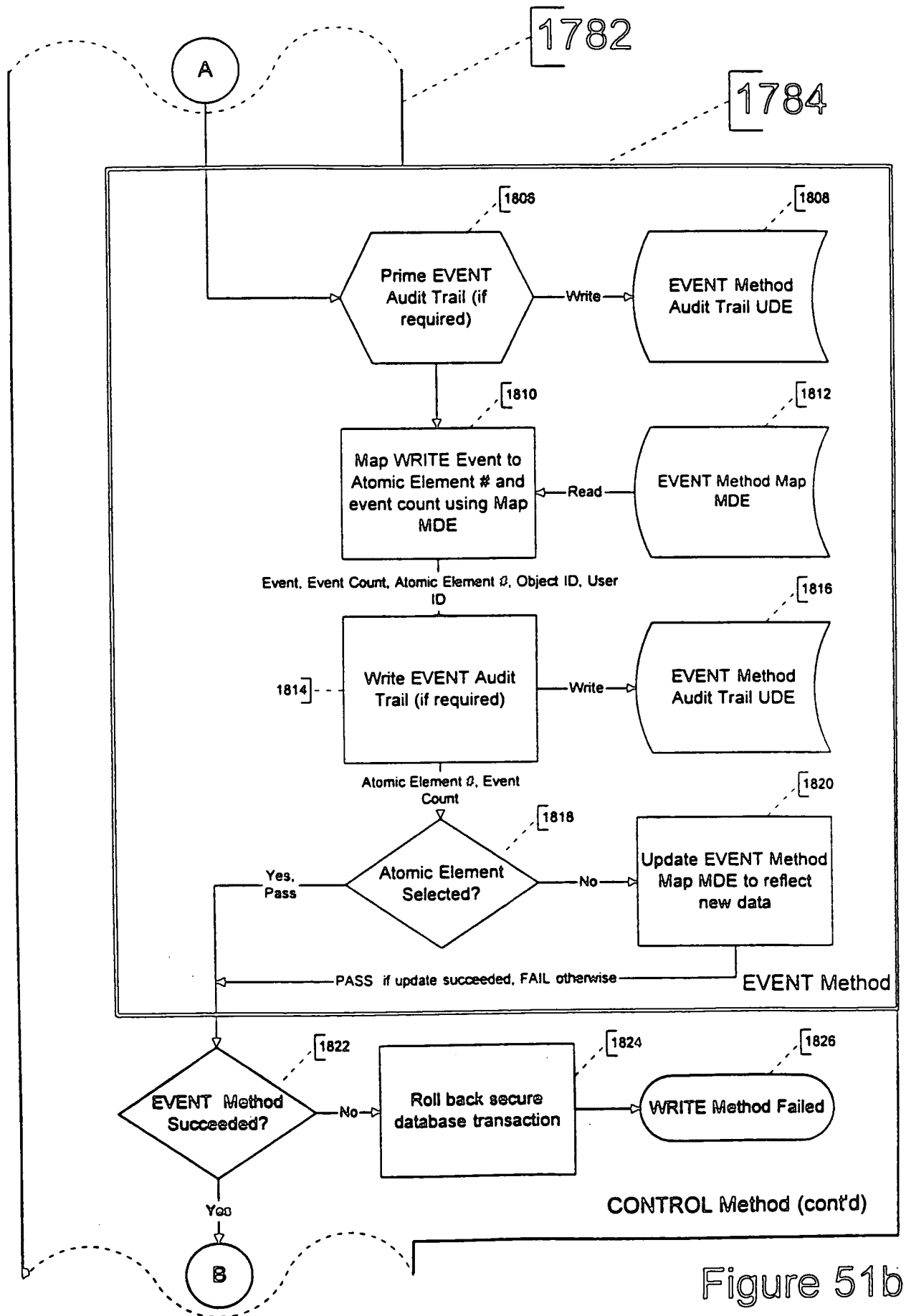


Figure 51b

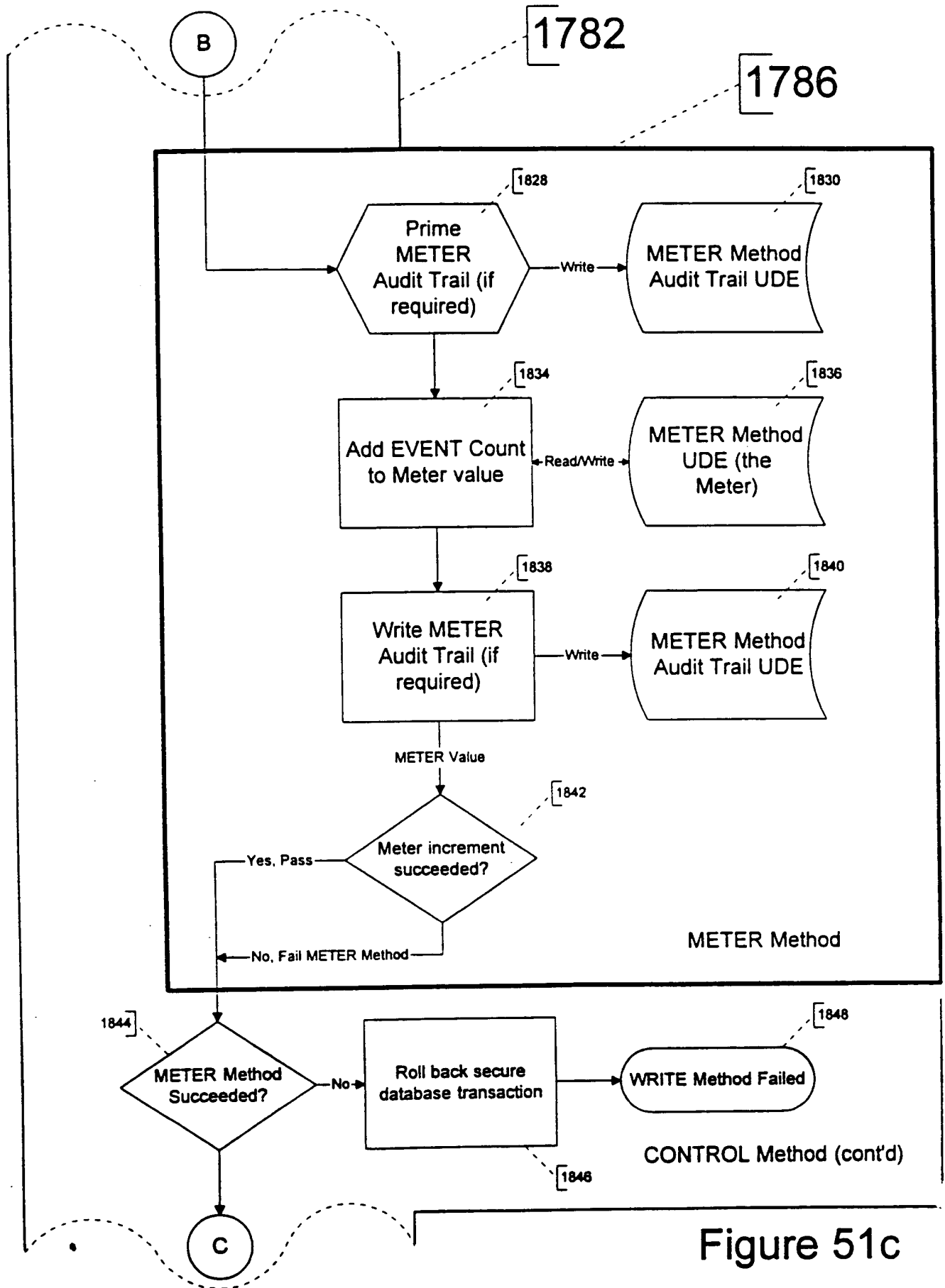


Figure 51c

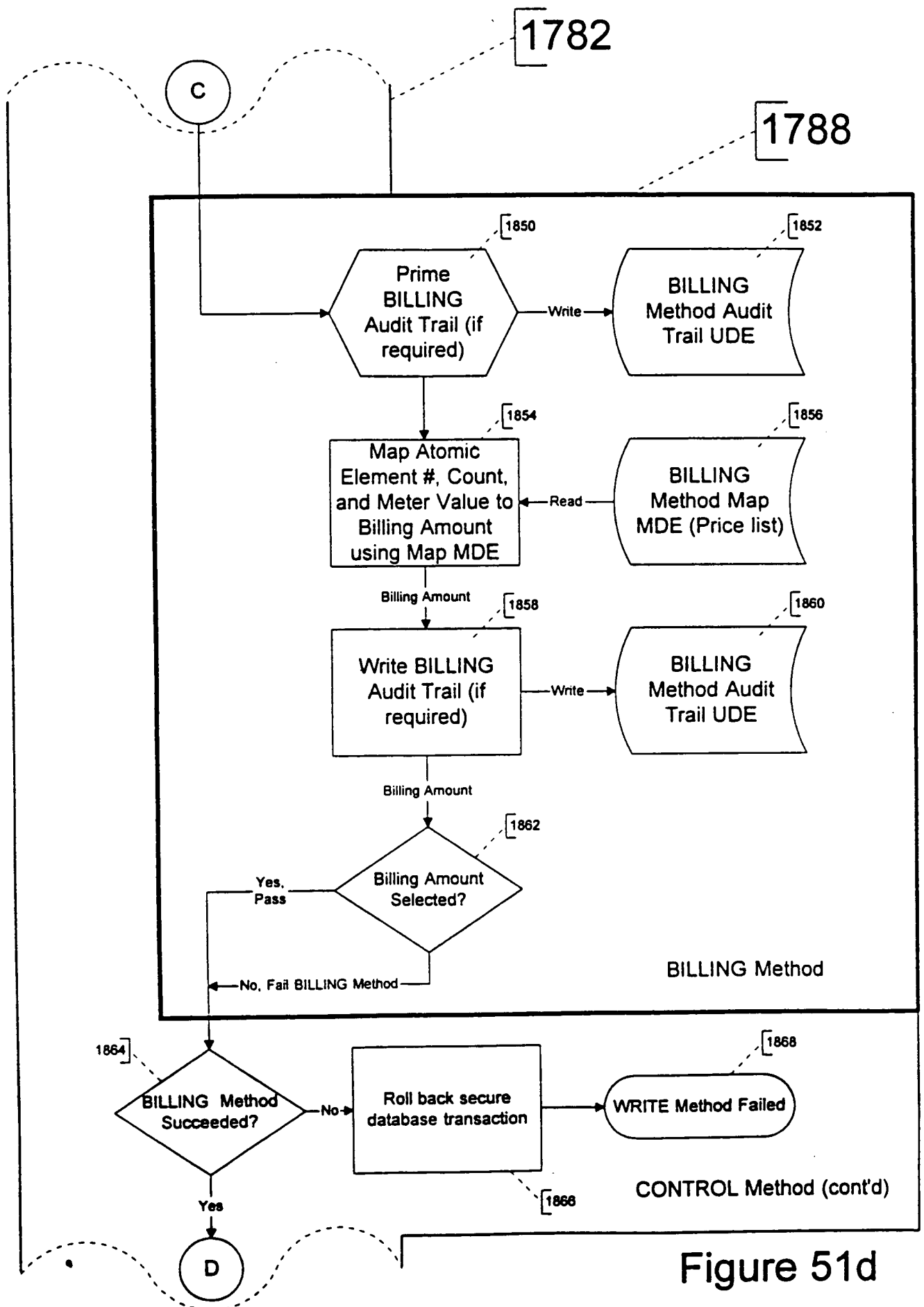


Figure 51d

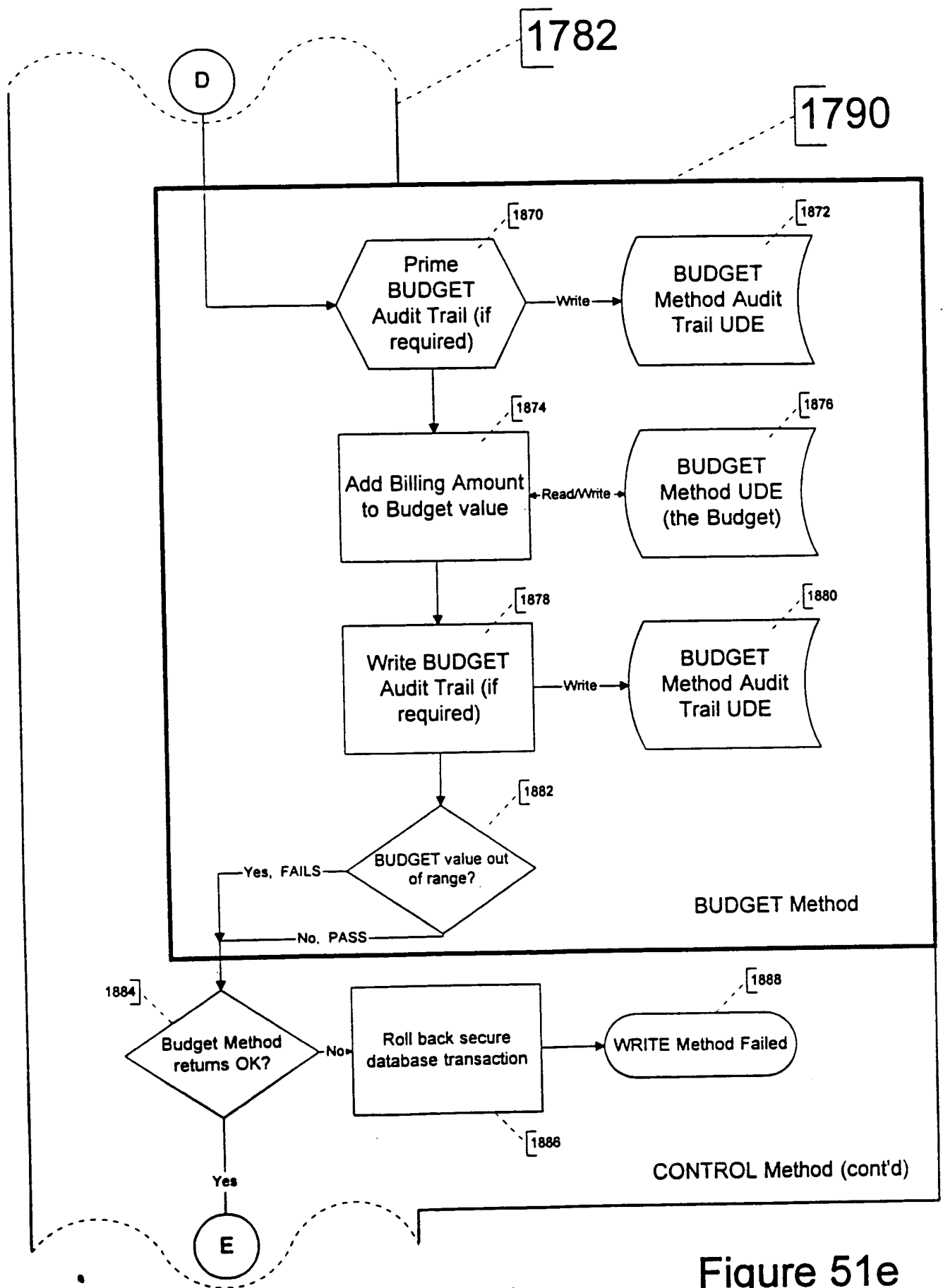
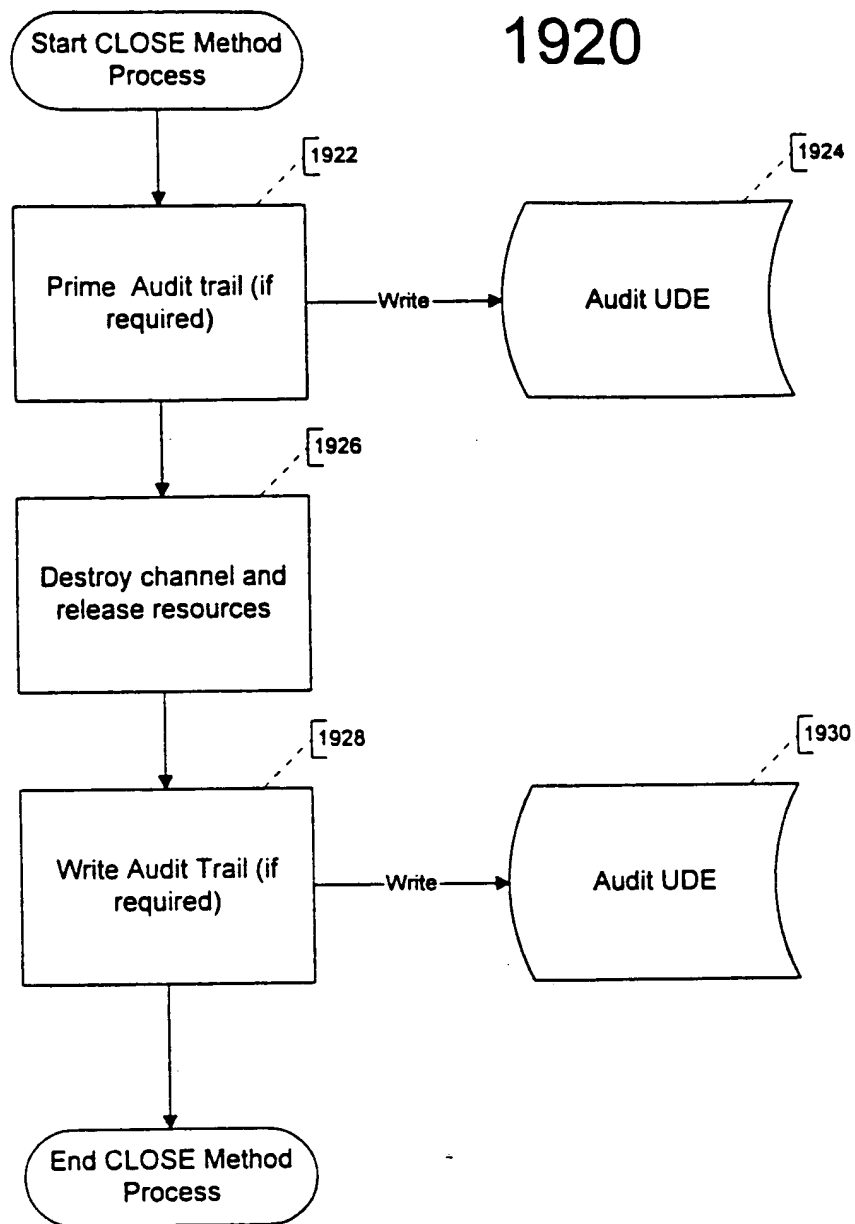


Figure 51e



CLOSE Method Process Flow

Figure 52

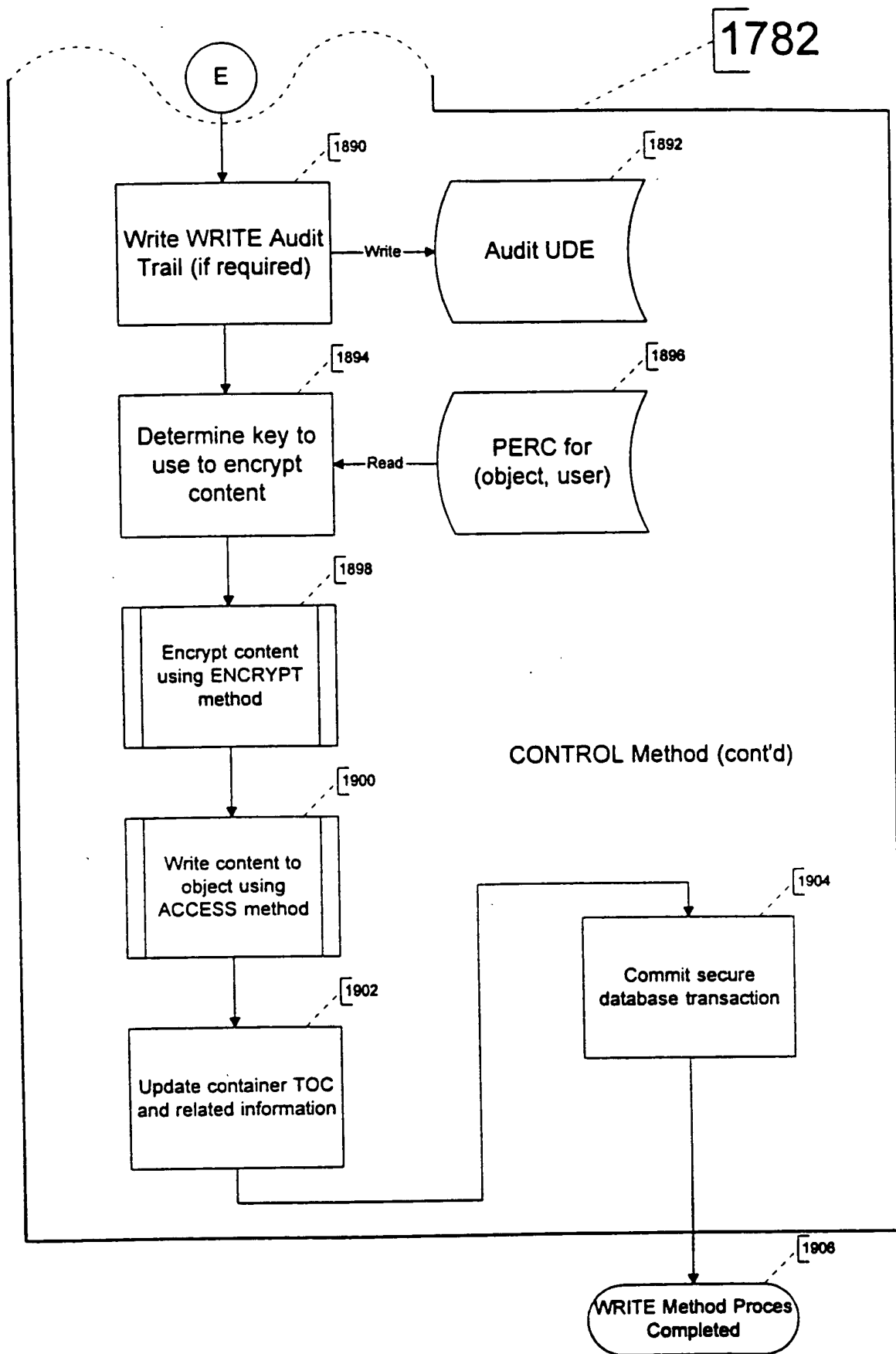


Figure 51f

Sample EVENT Method Mapping Process

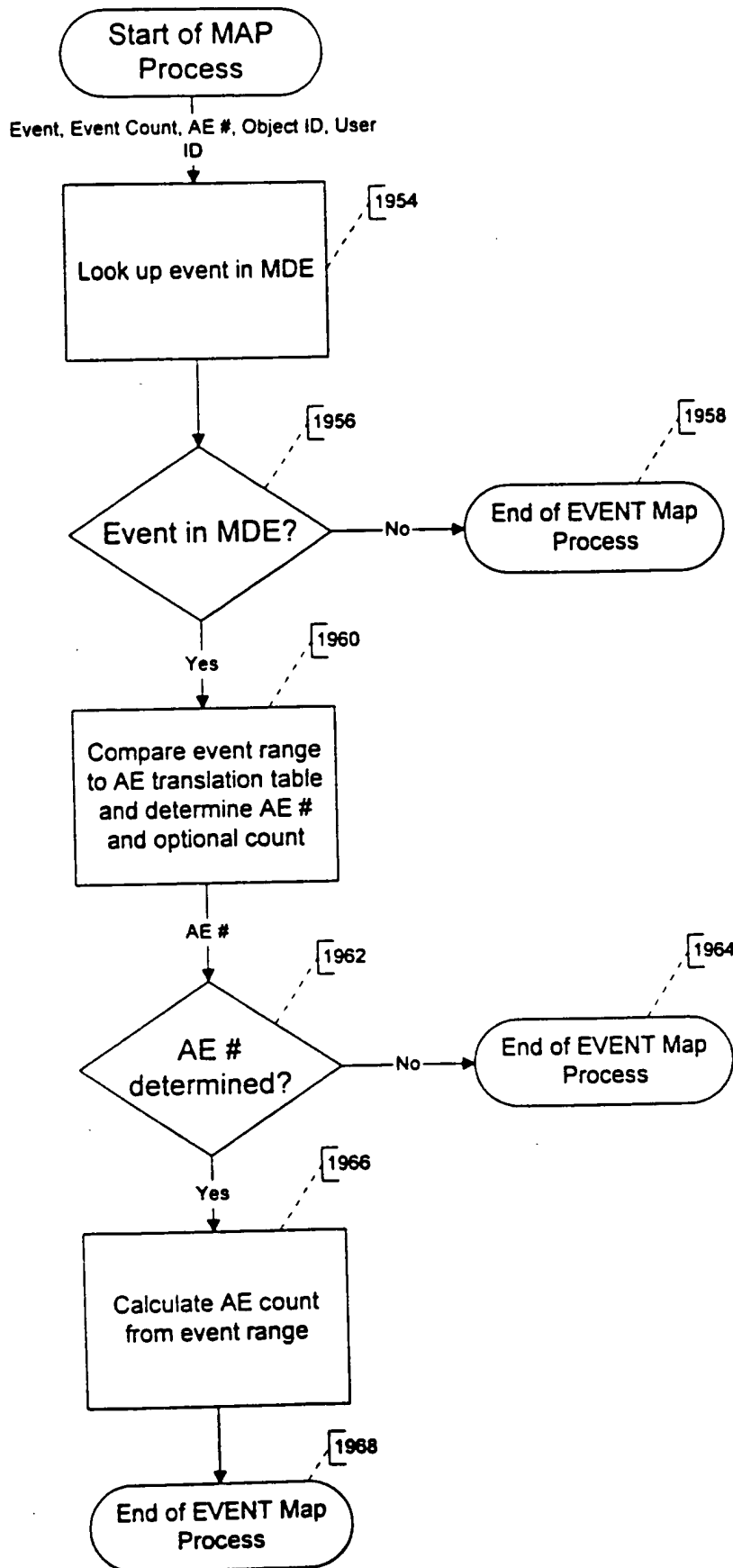


Figure 53b

EVENT Method Process Flows

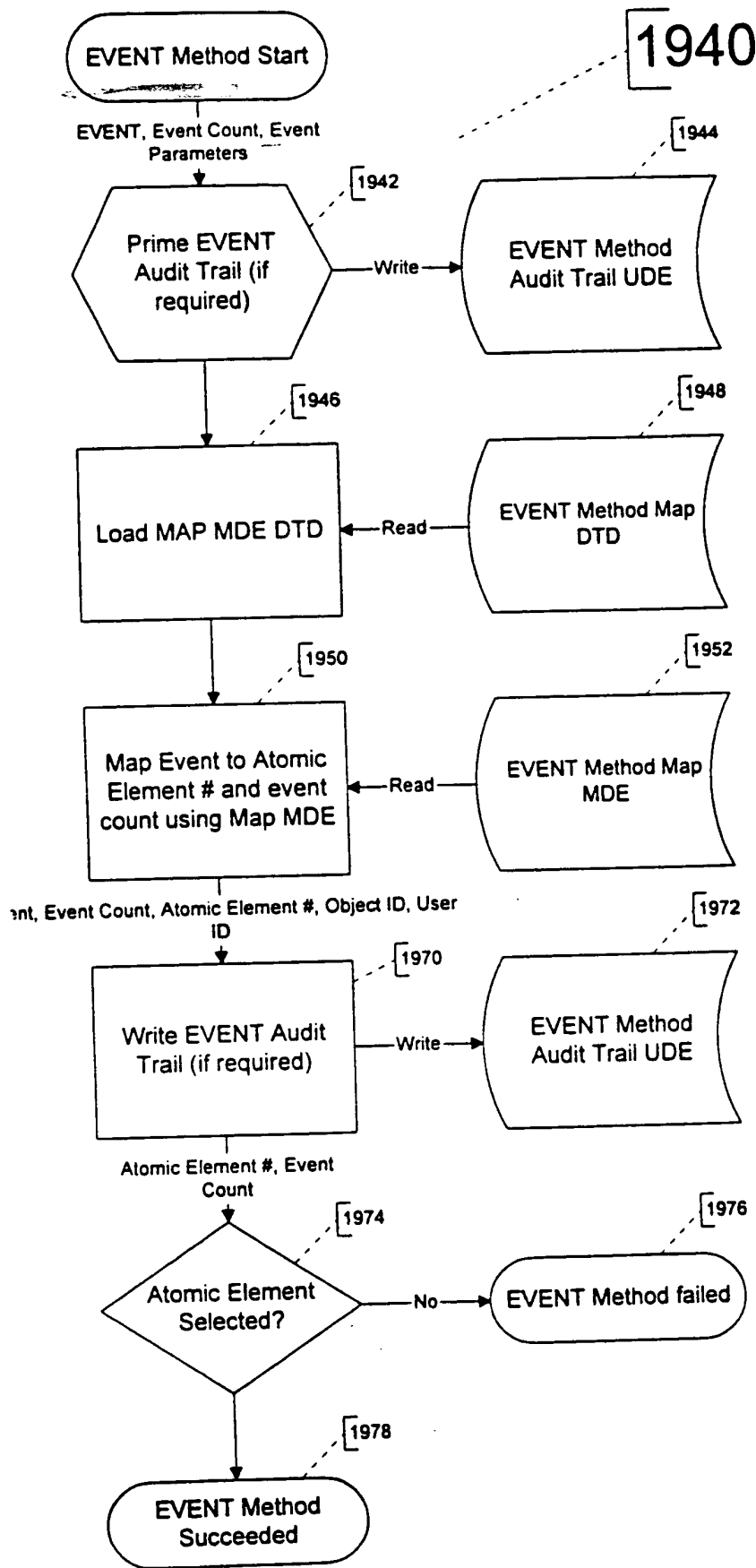


Figure 53a

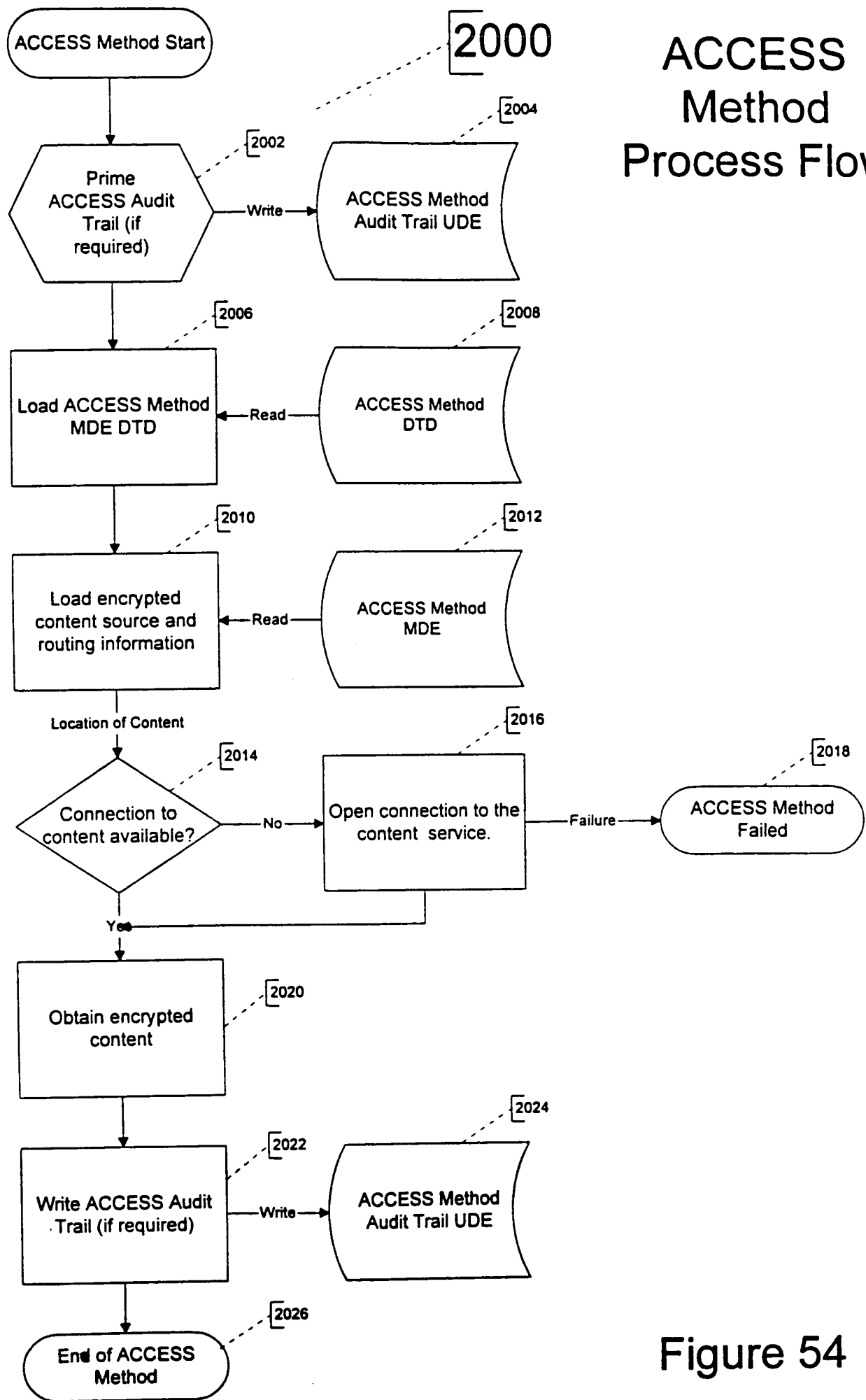


Figure 54

BILLING Method Process Flows

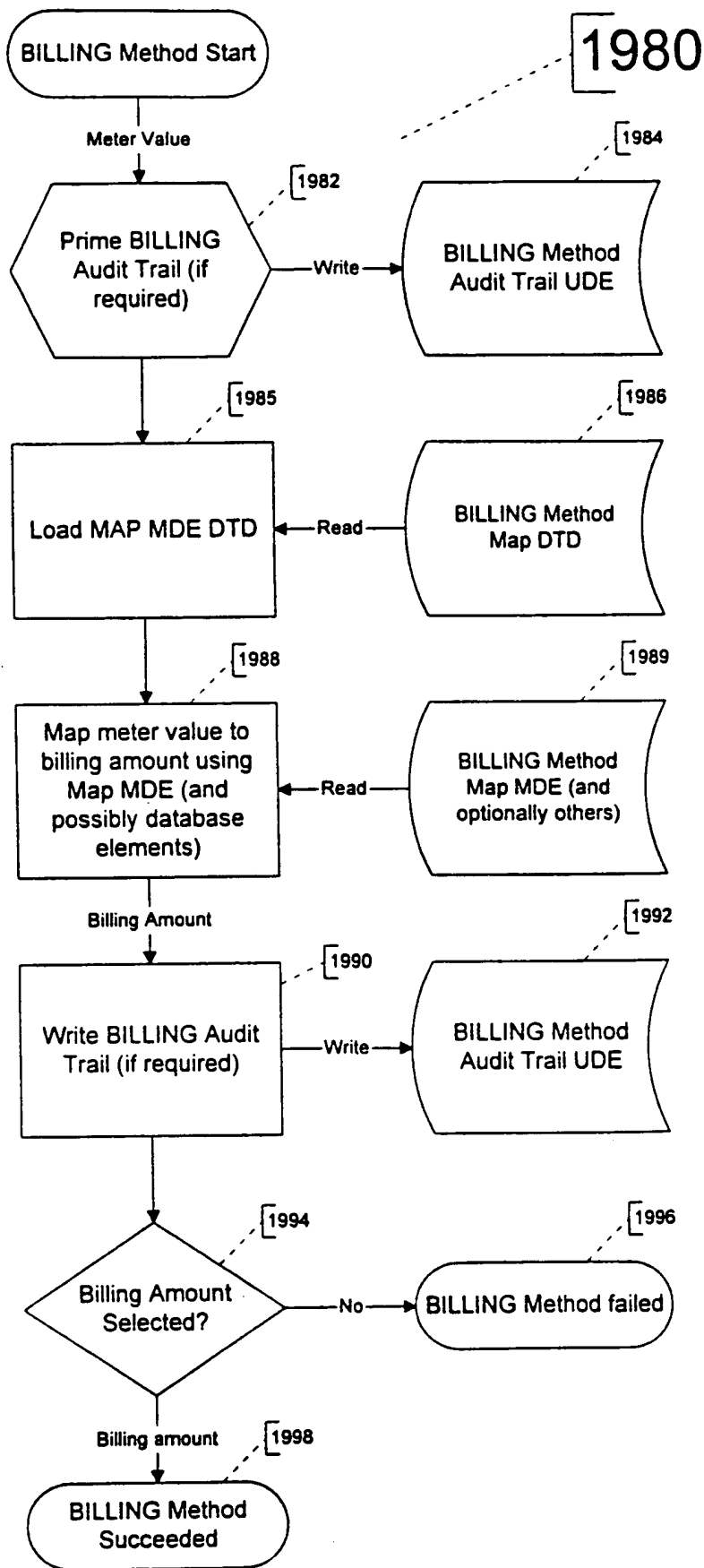


Figure 53c

ENCRYPT Method Process Flow

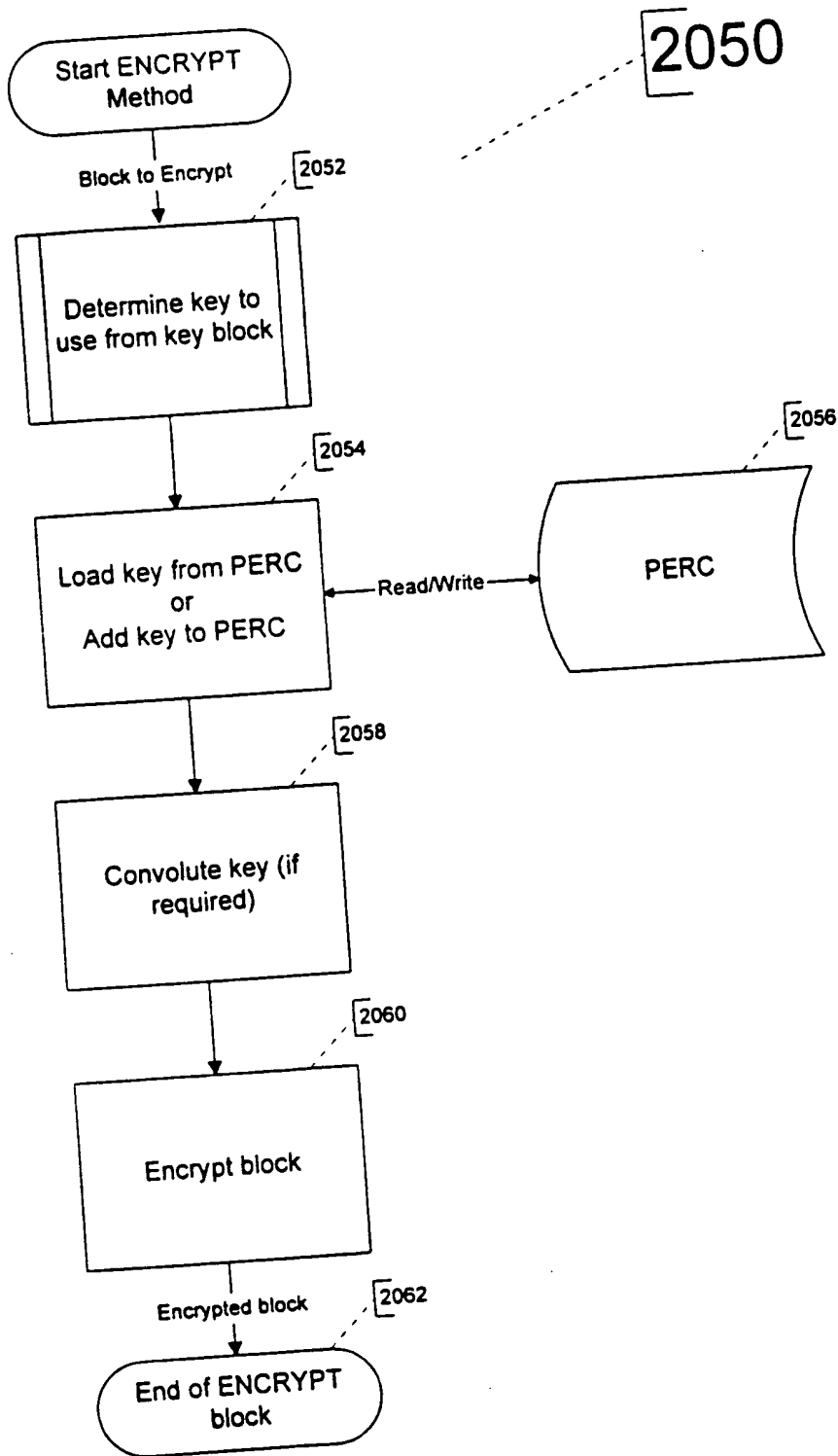


Figure 55b

DECRYPT Method Process Flow

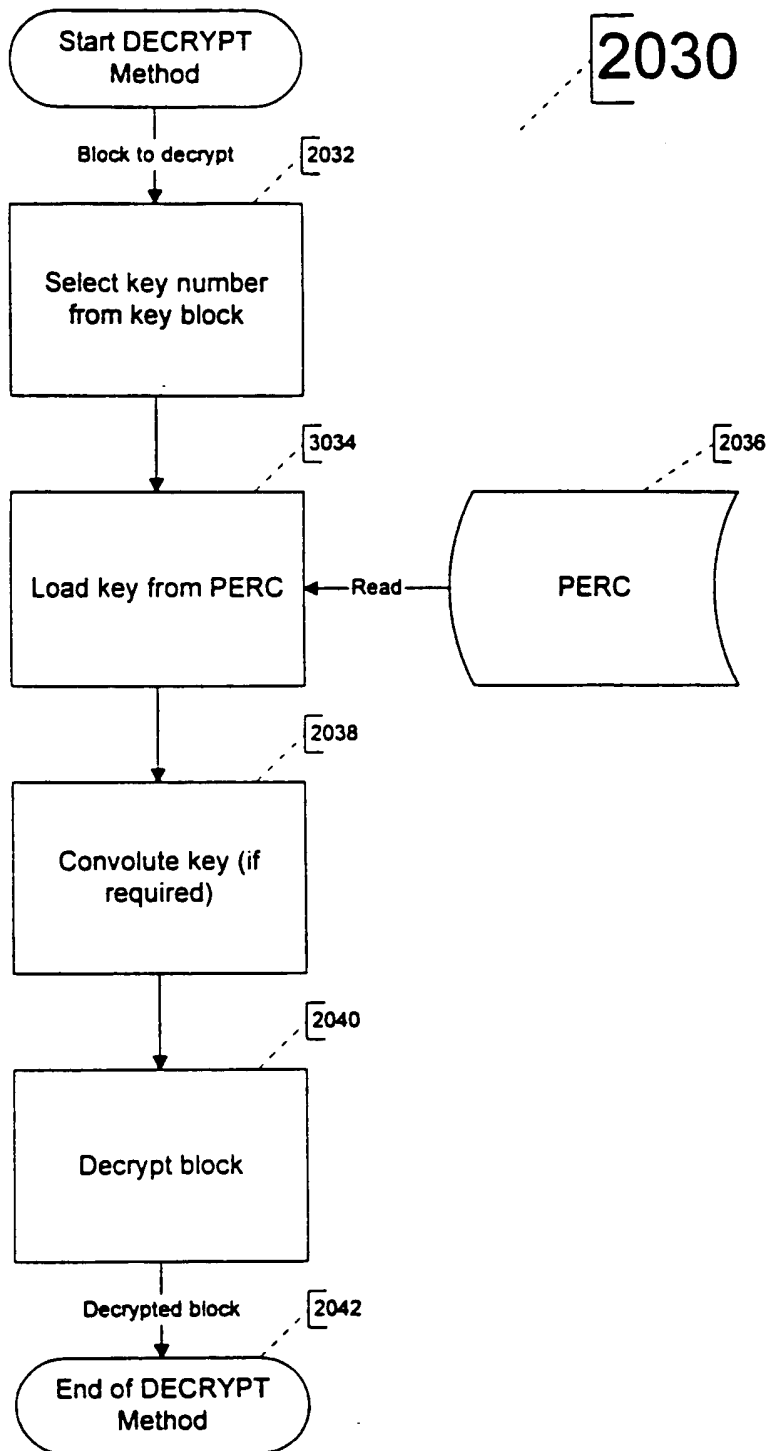


Figure 55a

EXTRACT Method Process Flow

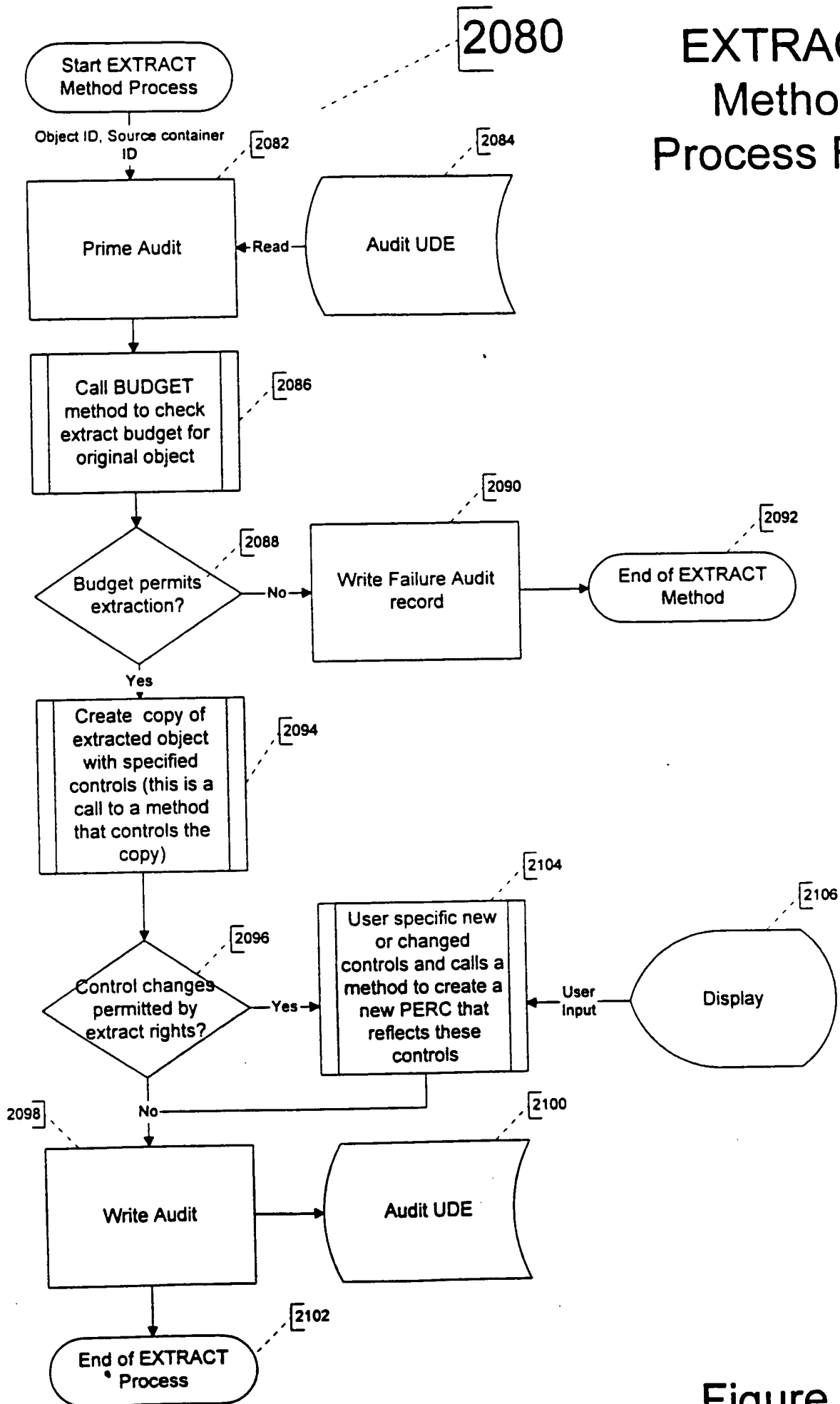


Figure 57a

CONTENT Method Process Flow

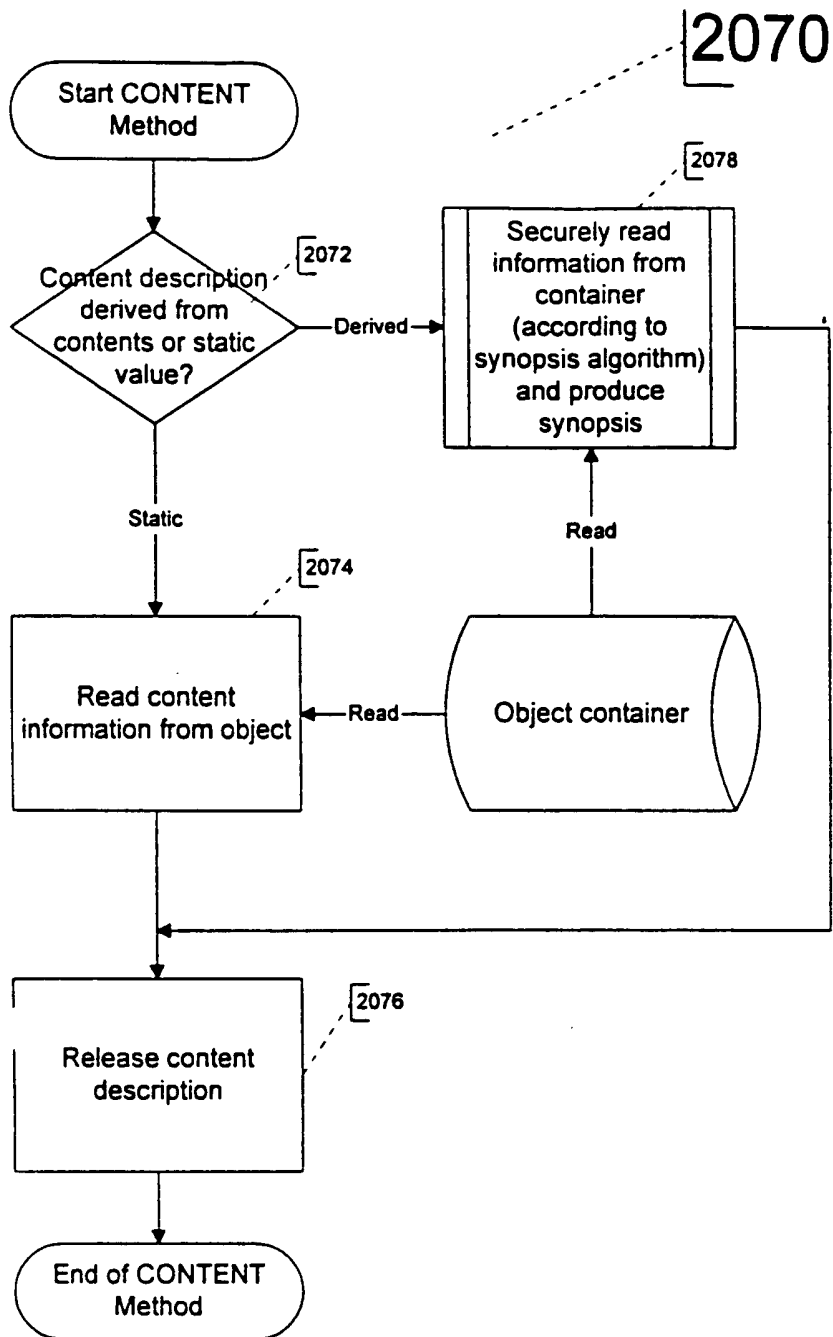
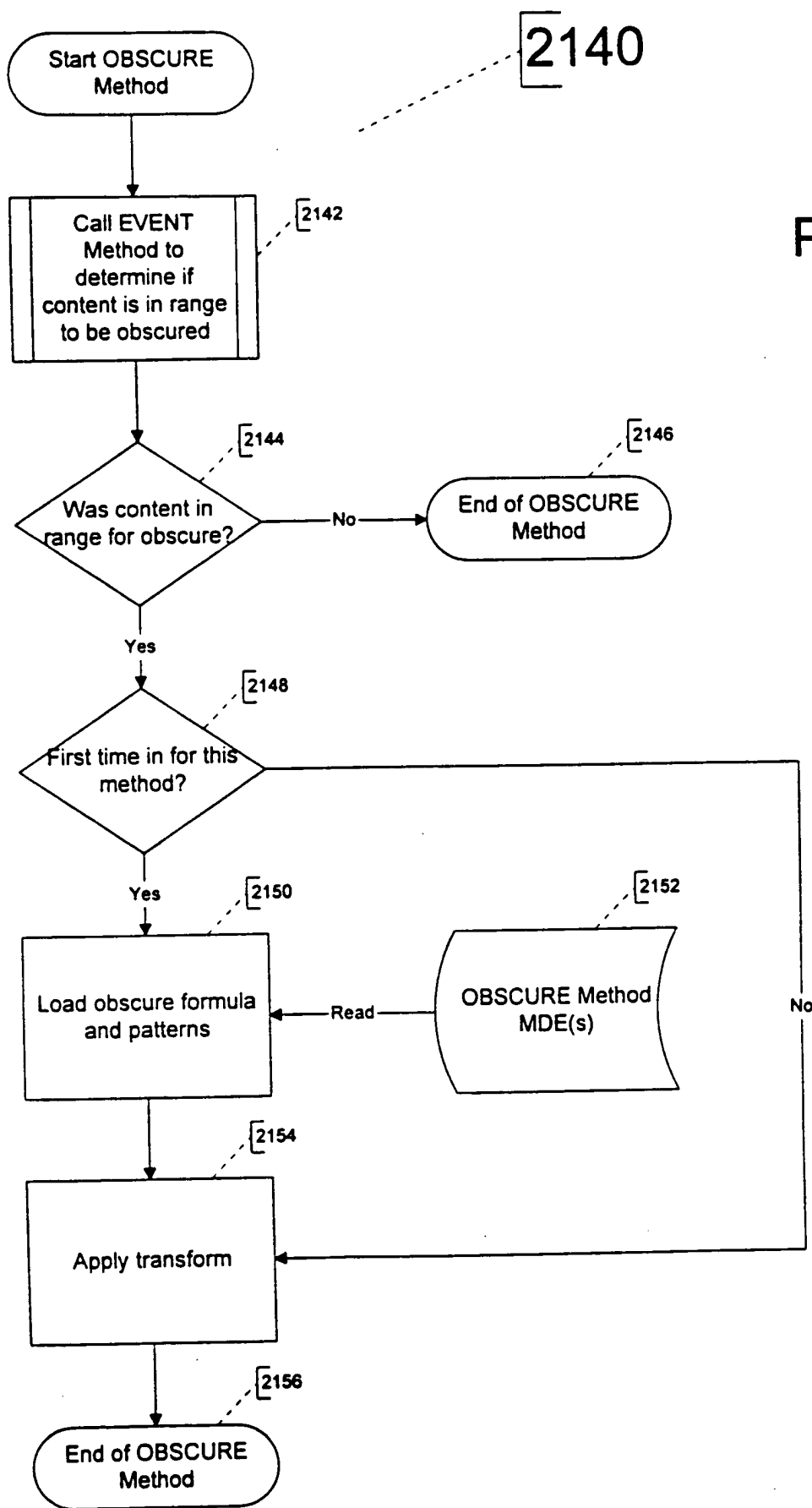


Figure 56



OBSCURE Method Process Flow

Figure 58a

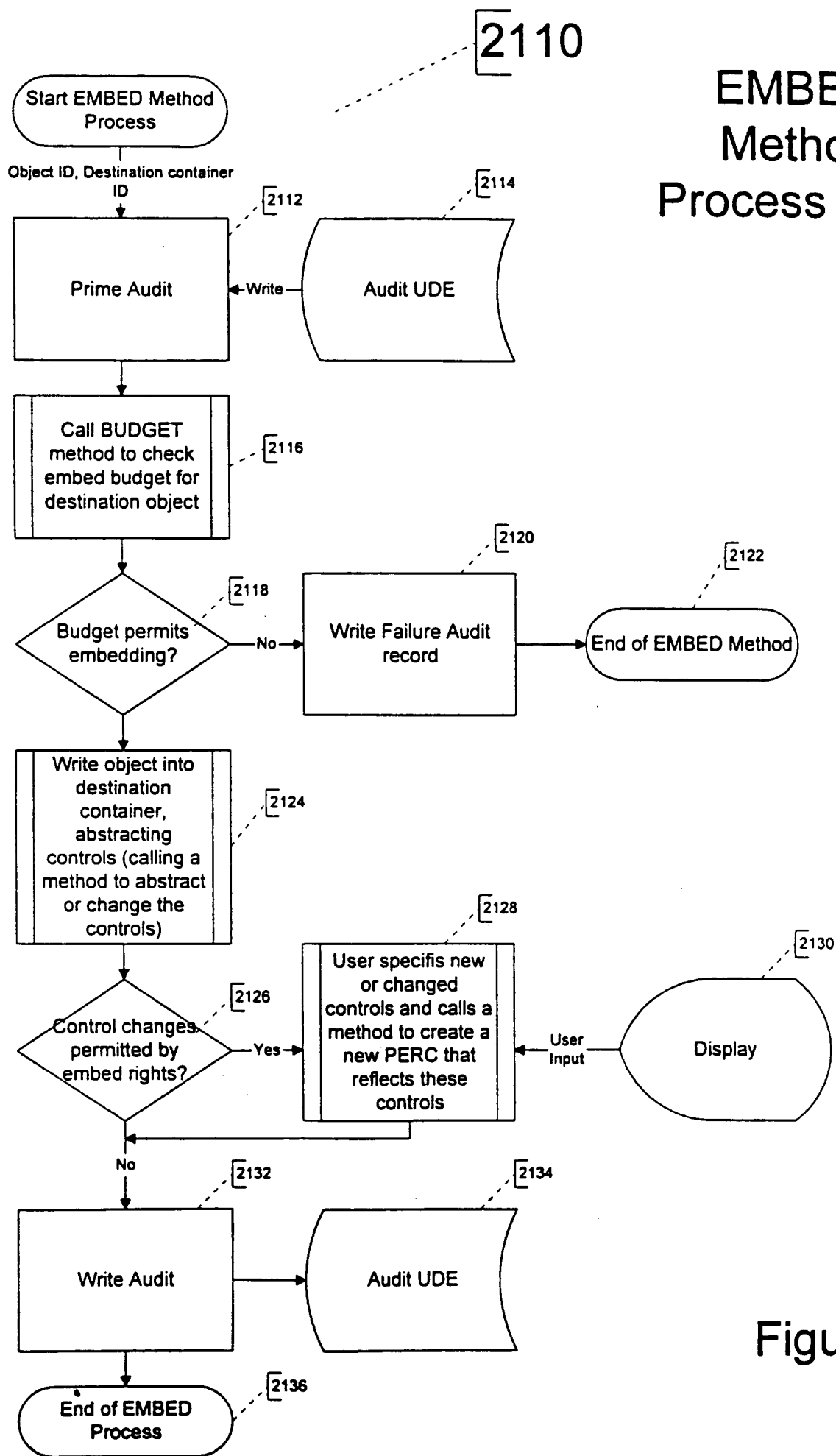


Figure 57b

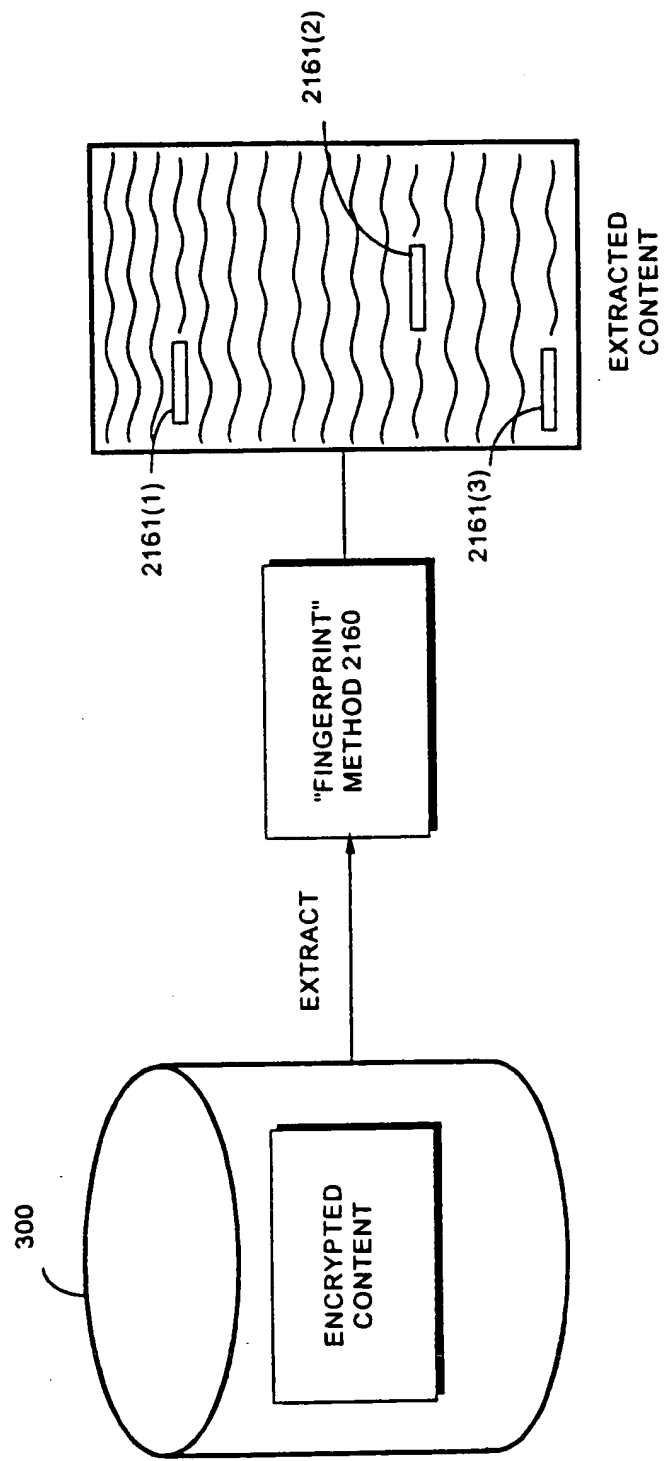
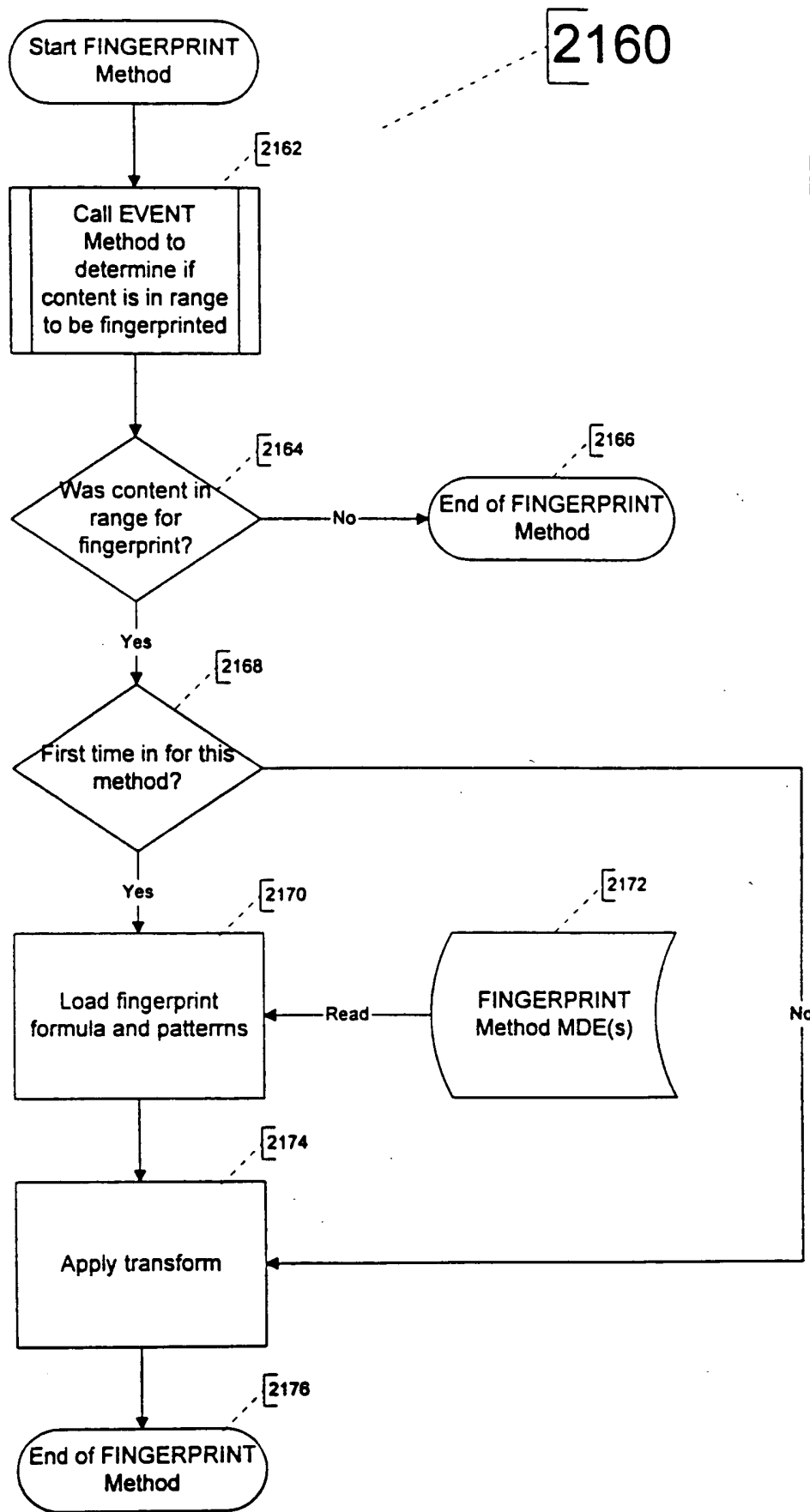
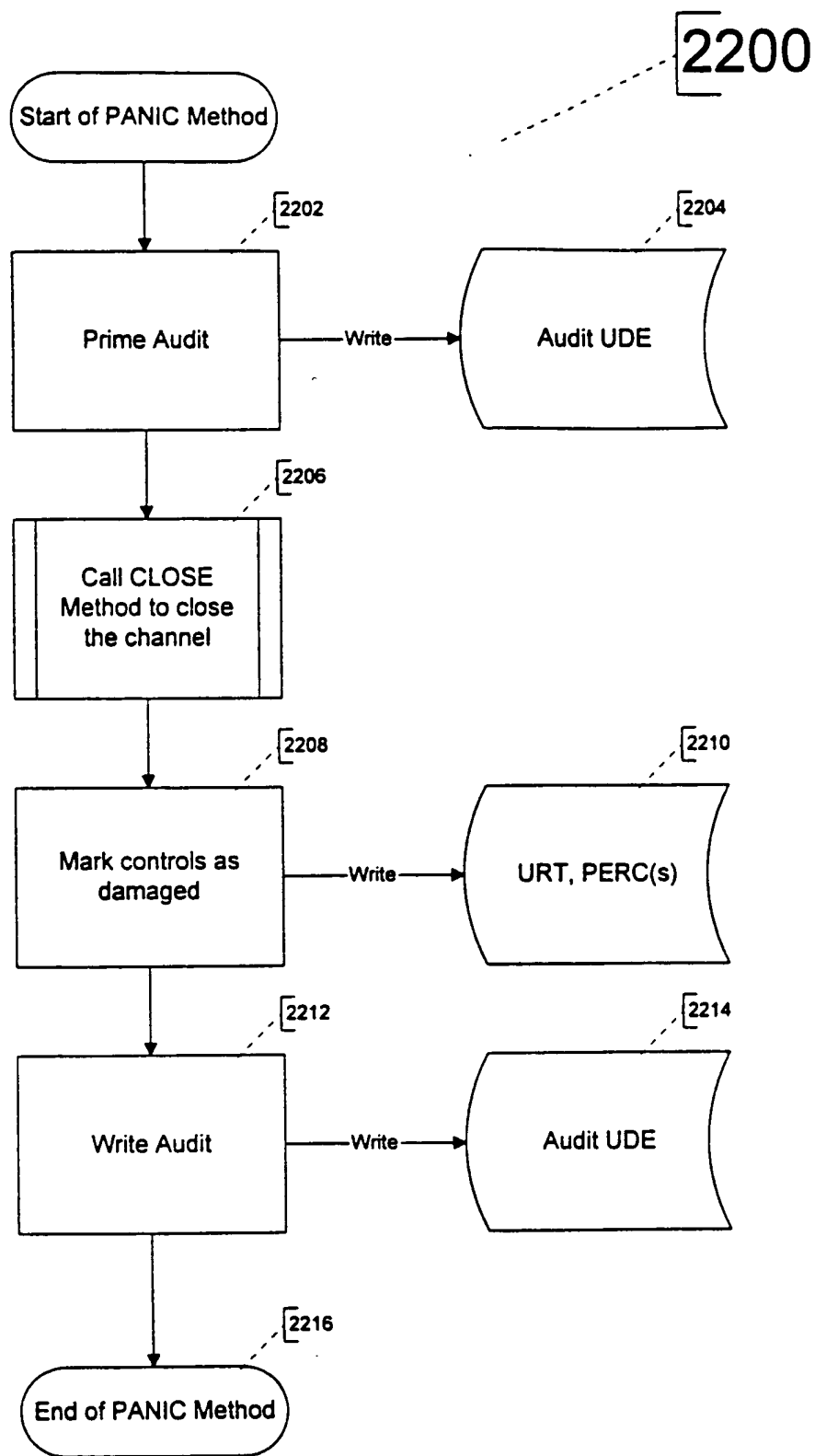


FIG. 58C



FINGERPRINT Method Process Flow

Figure 58b



PANIC Method Process Flow

Figure 60

DESTROY Method Process Flow

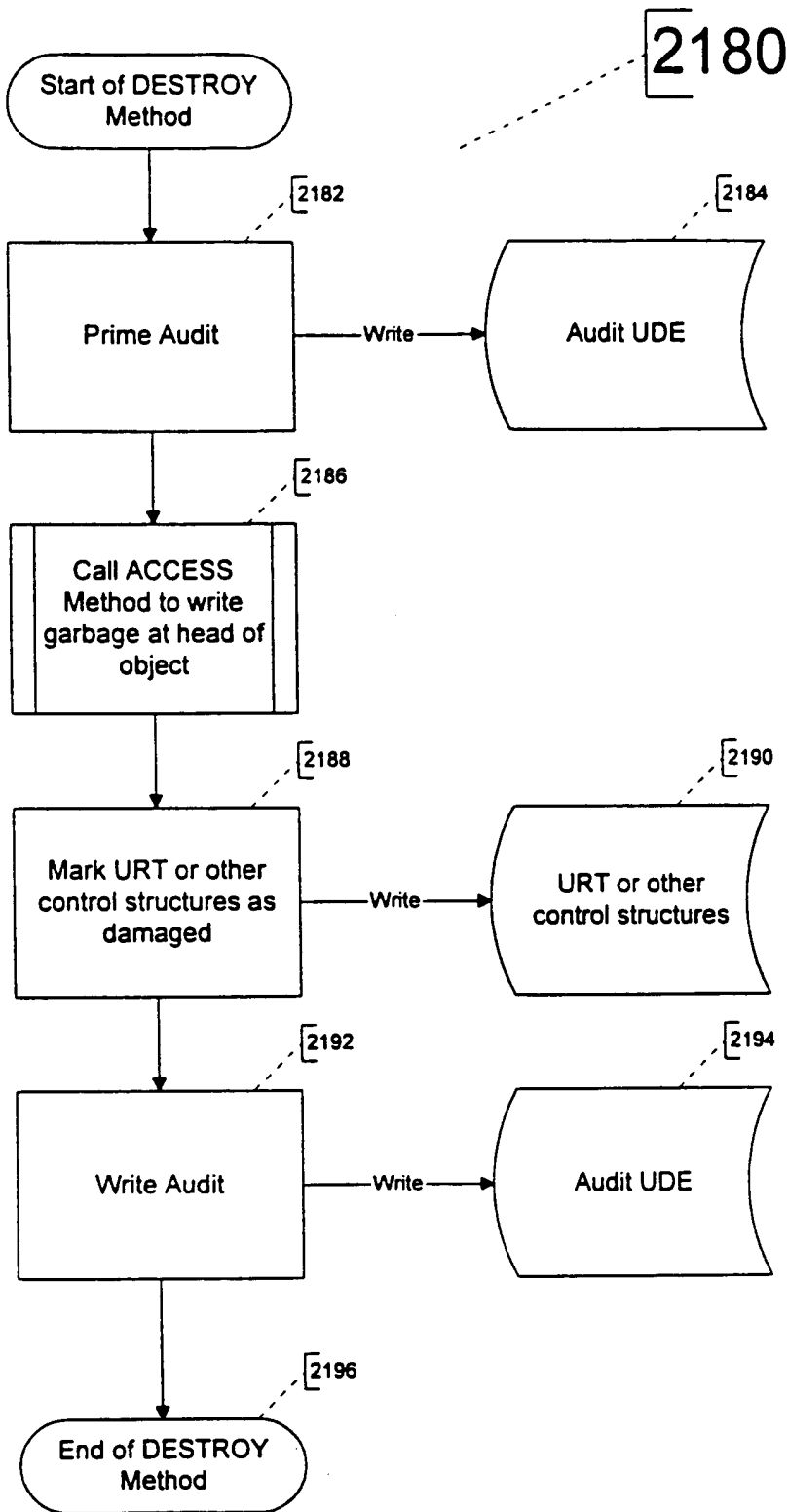
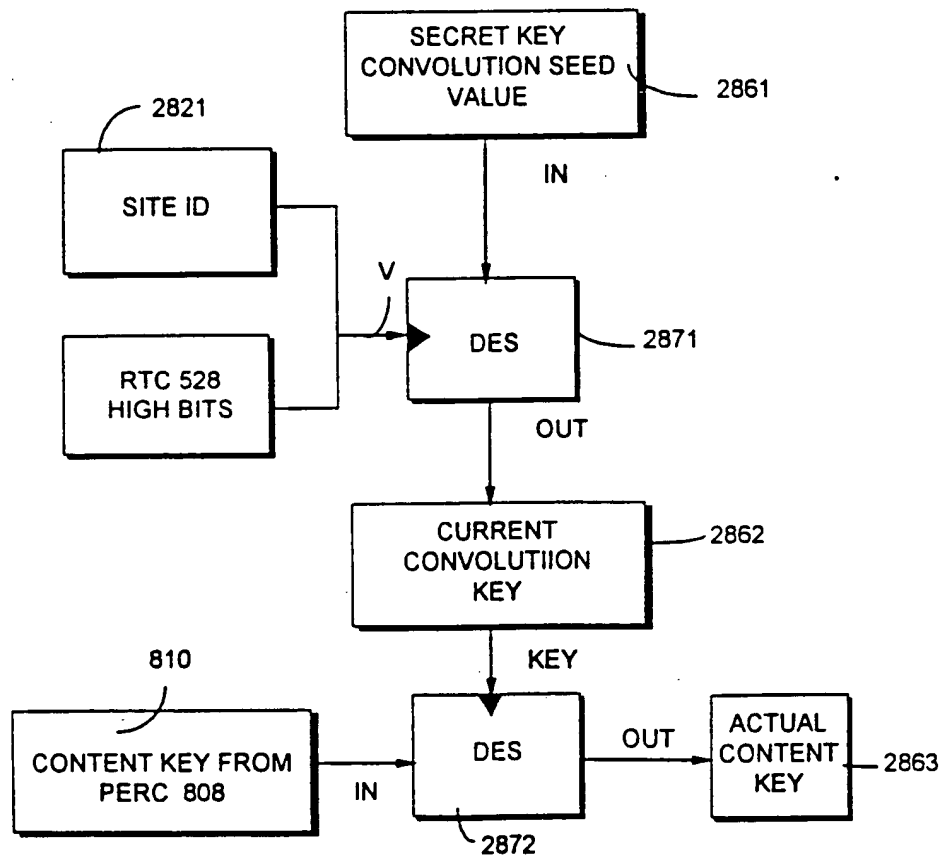


Figure 59

FIG. 62
KEY CONVOLUTION PROCESS



METER Method Use Process Flow

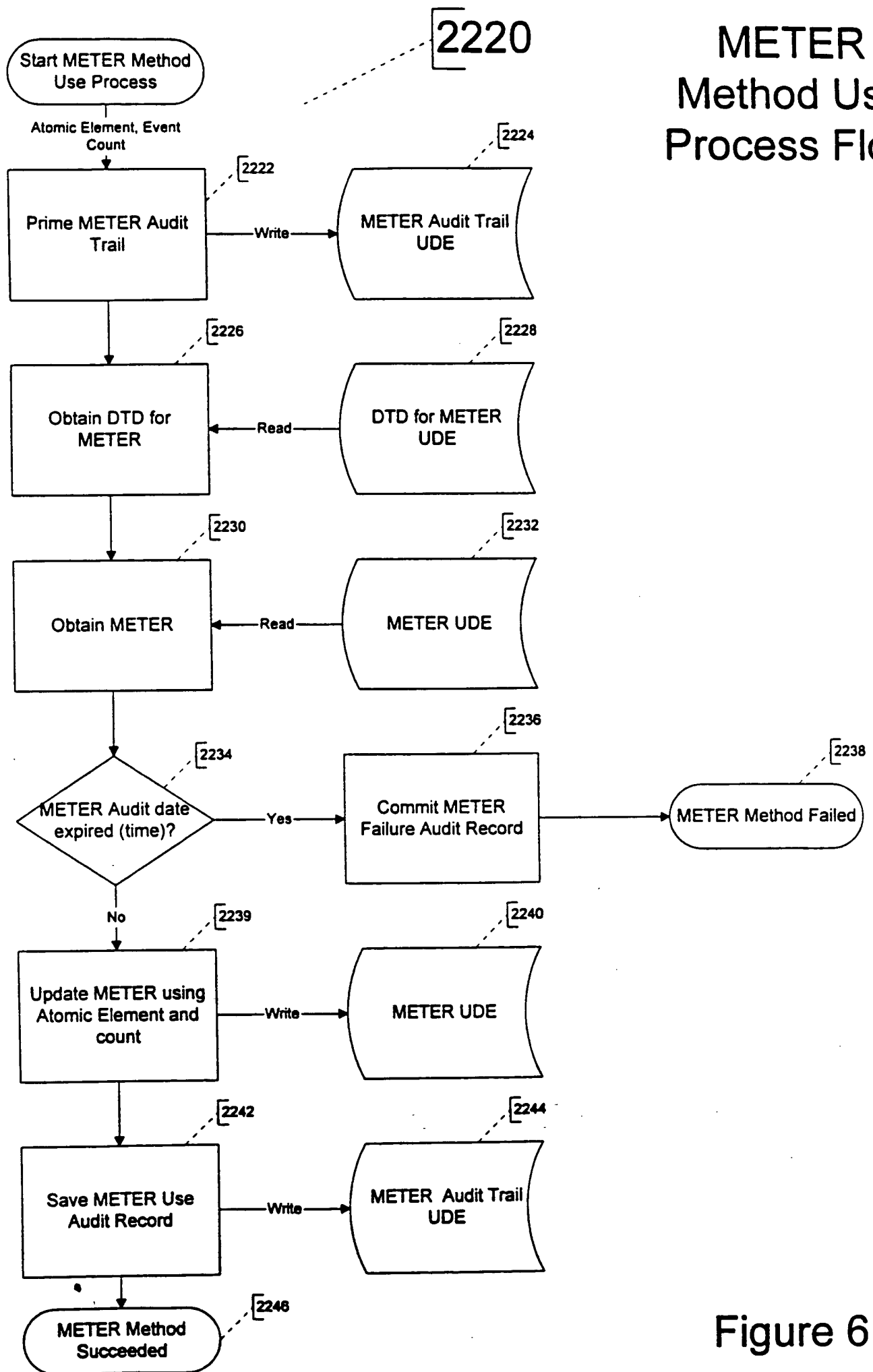
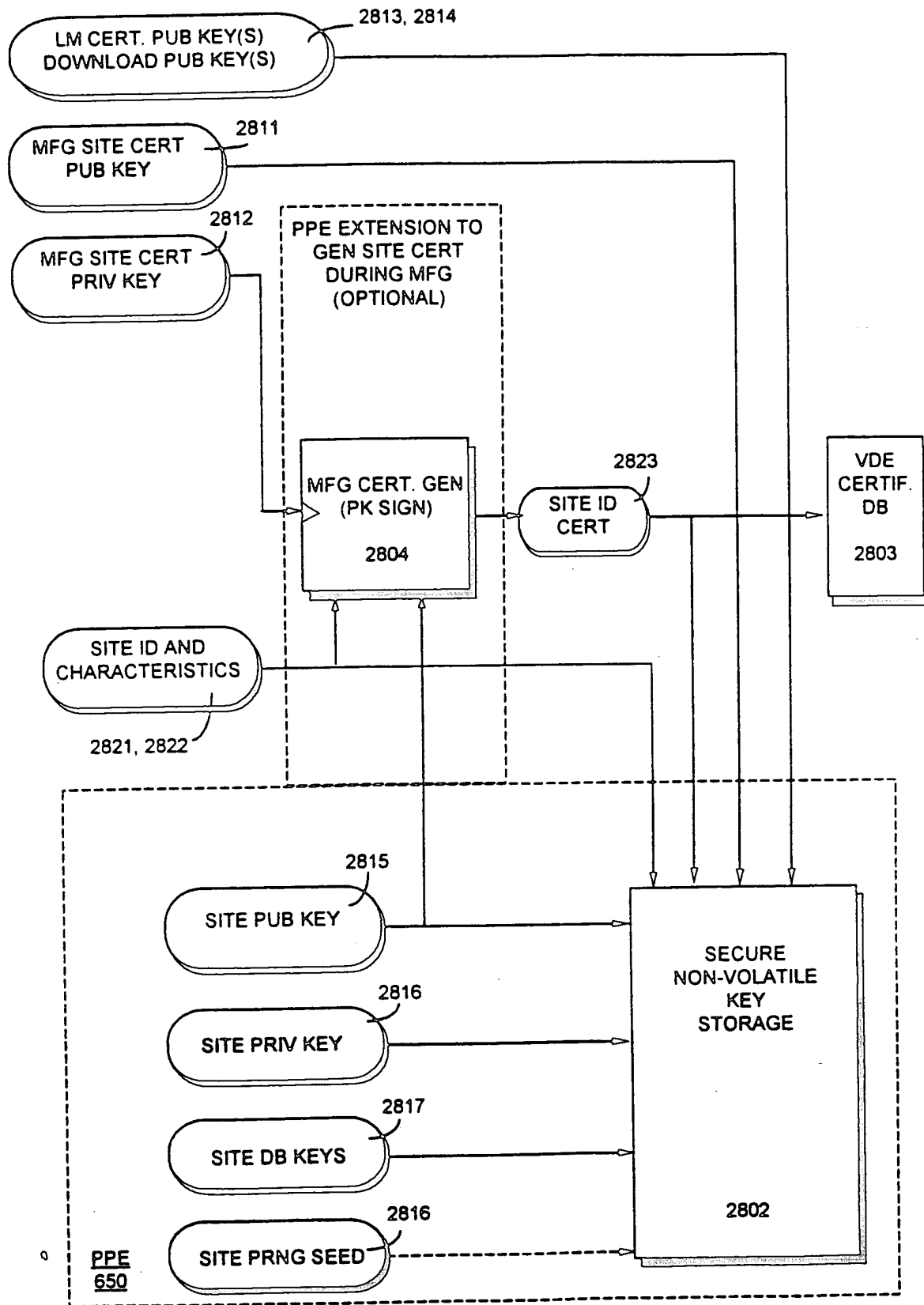


Figure 61

FIG. 64 SPU KEY INITIALIZATION/INSTALLATION



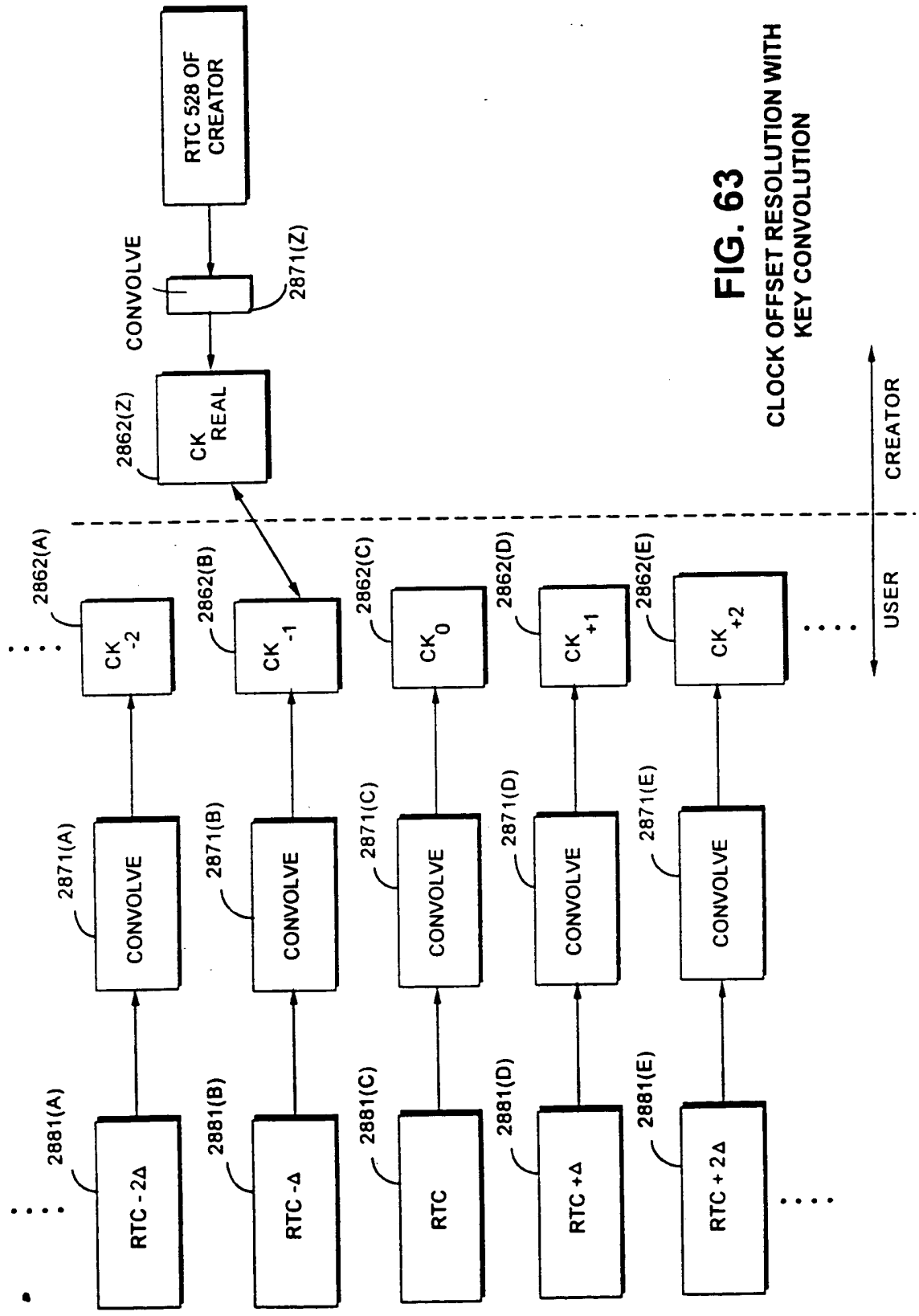


FIG. 63

CLOCK OFFSET RESOLUTION WITH
KEY CONVOLUTION

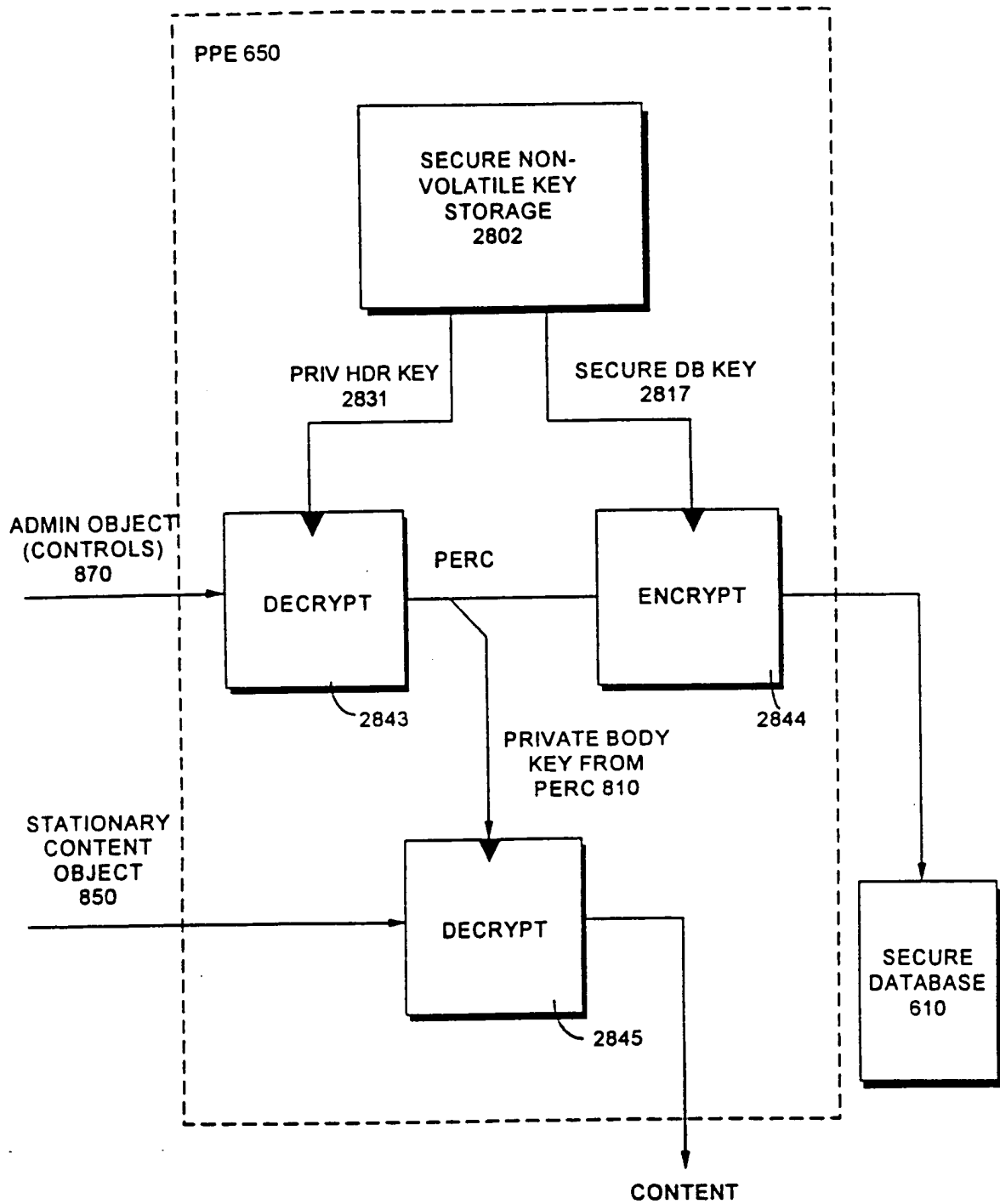


FIG. 66 STATIONARY OBJECT DECRYPTION

FIG. 65 KEY INSTALLATION & UPDATE

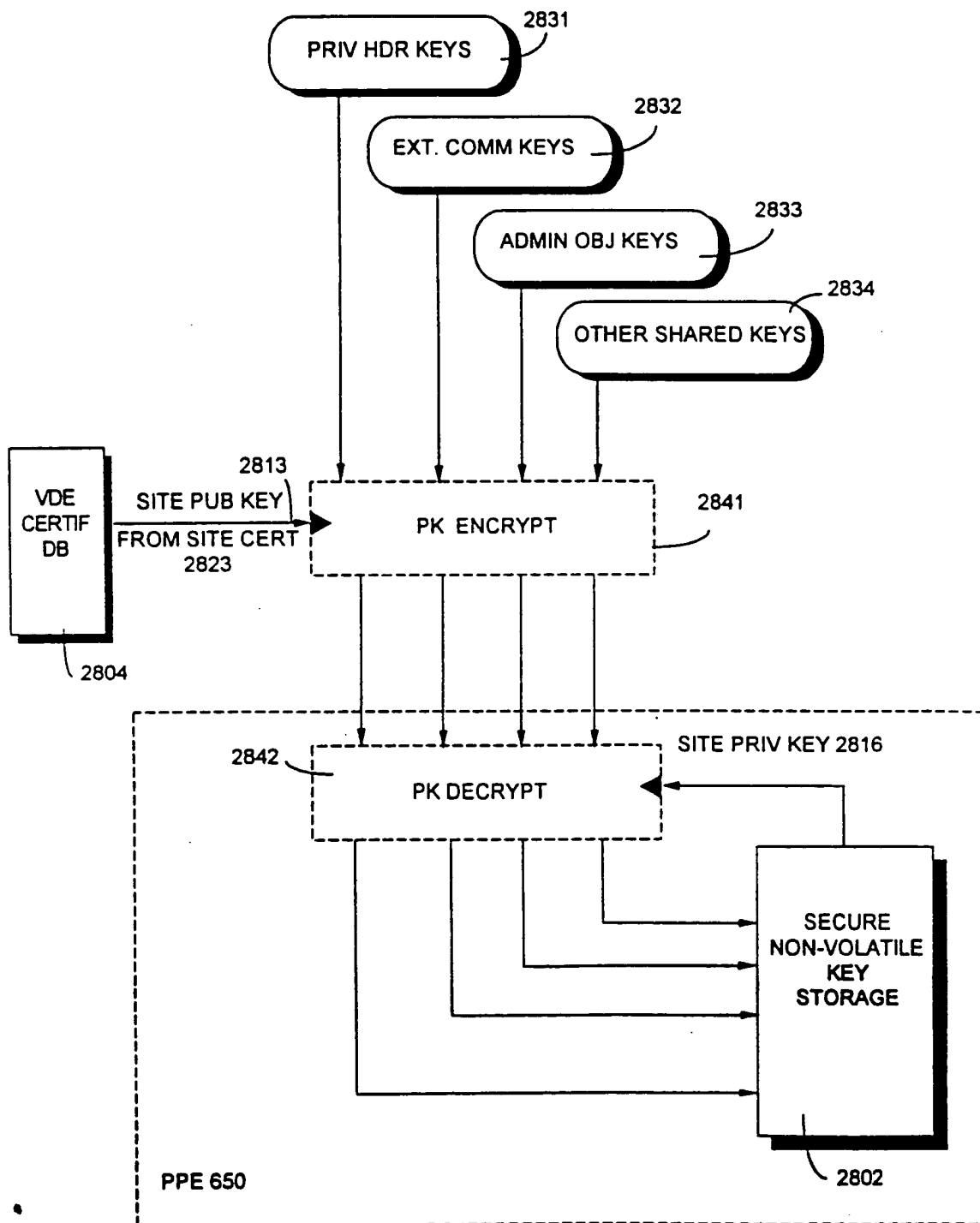
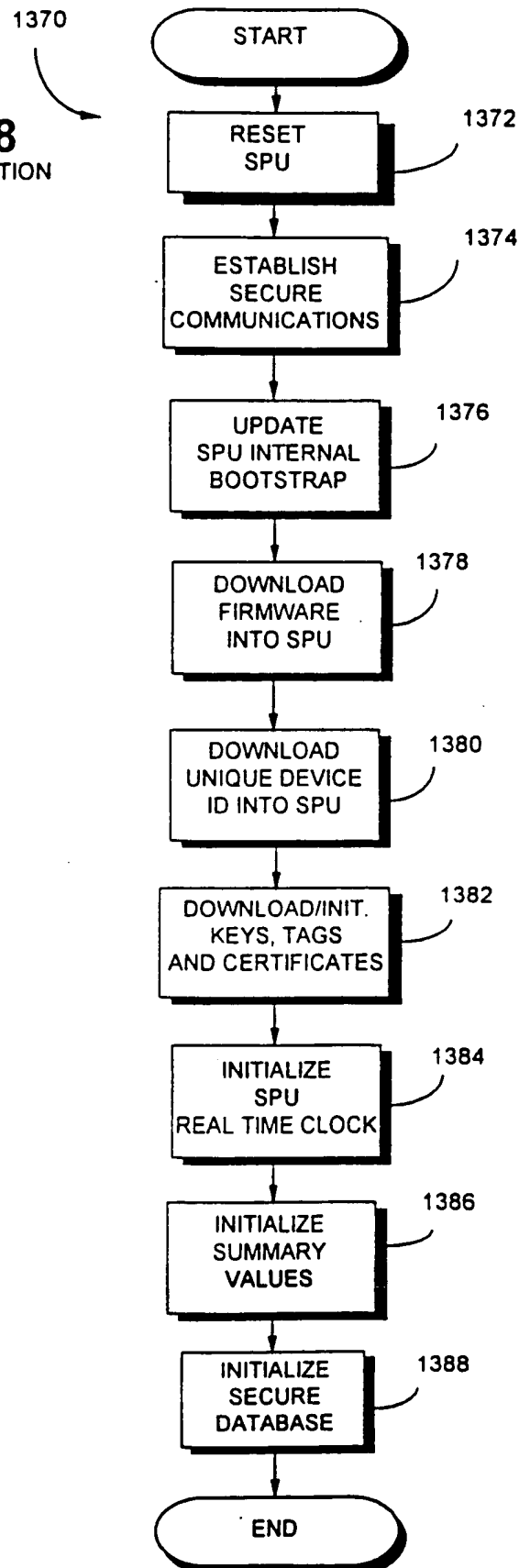


FIG. 68
SPU INITIALIZATION



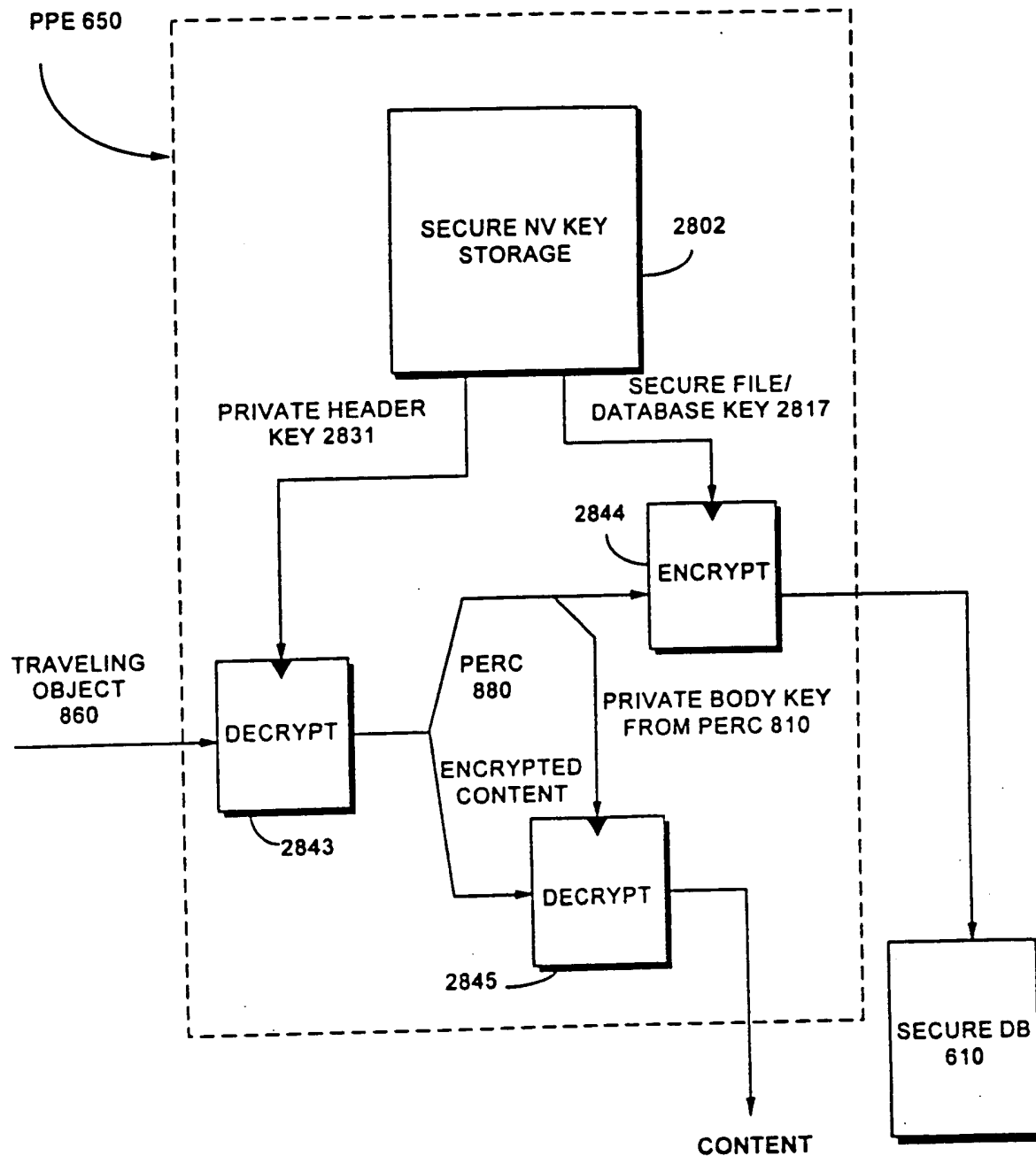


FIG. 67 TRAVELING OBJECT DECRYPTION

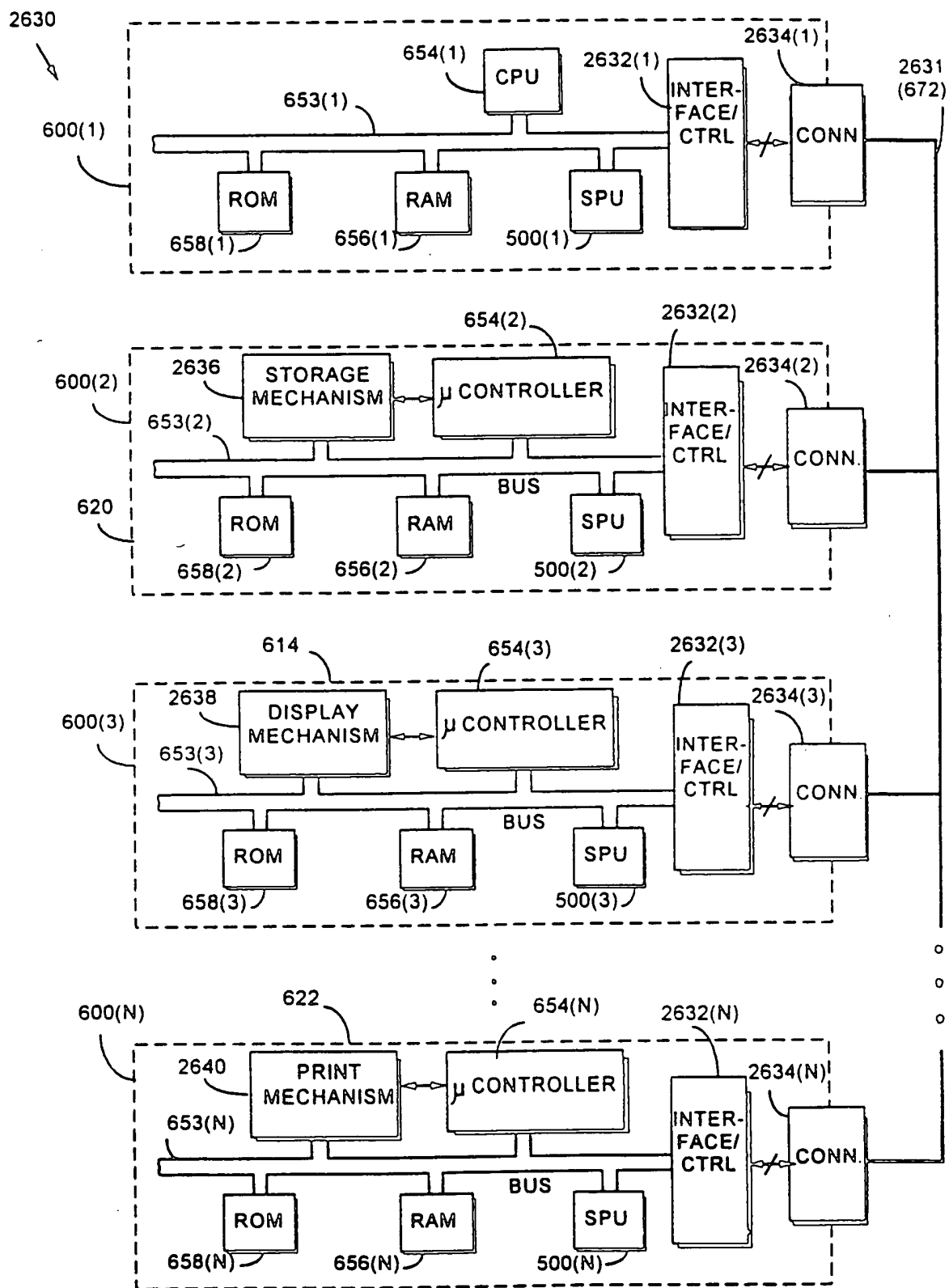


FIG. 70

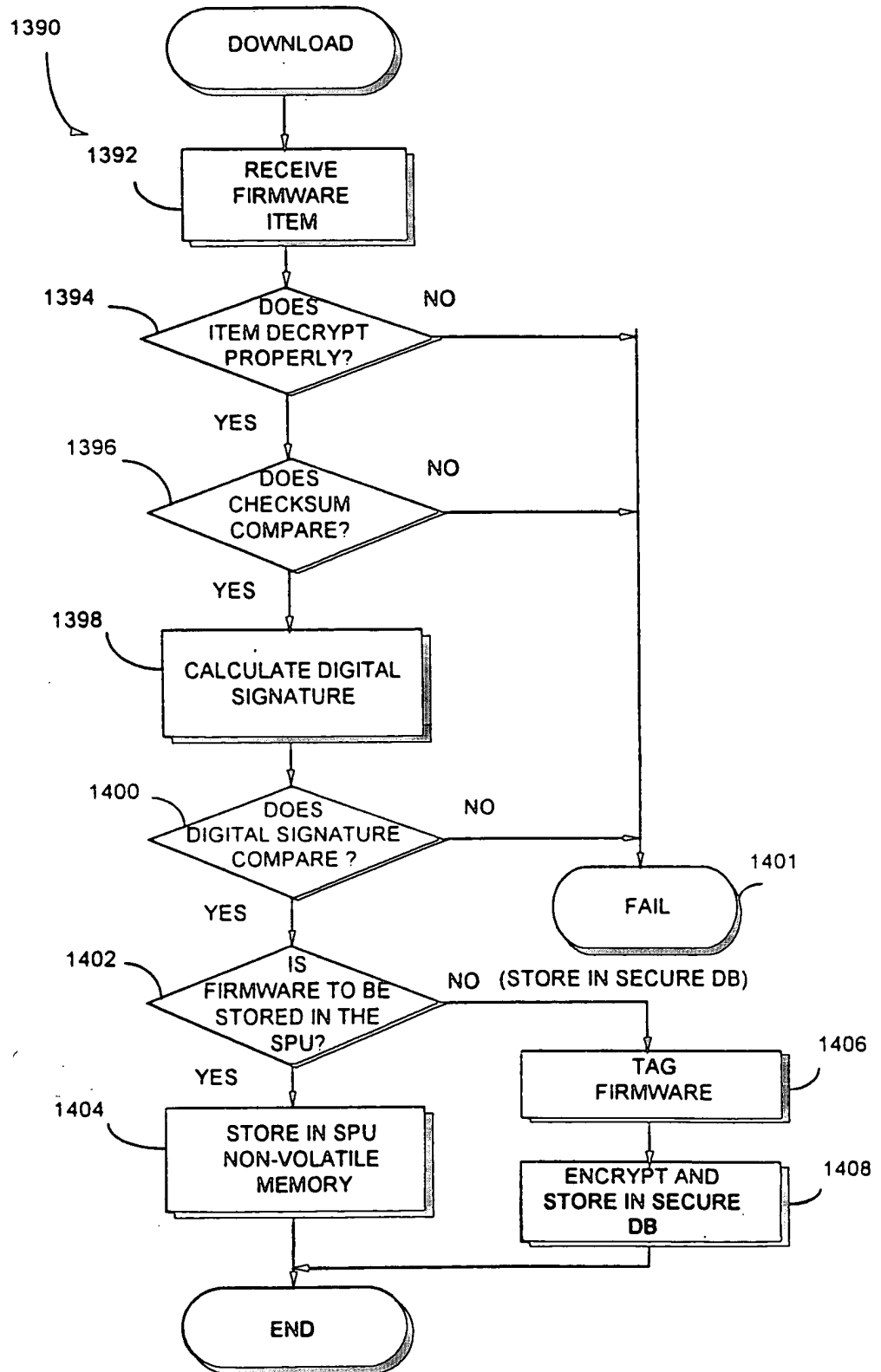


FIG. 69

SPU FIRMWARE
DOWNLOAD

LOG IN USER INTERFACE

182

USER NAME: SHEAR, V.

PASSWORD: * * * * *

☐ LOGIN AT STARTUP

LOGIN


CANCEL

HELP

FIG. 72A

FIG. 72B

2660

 YOU HAVE REQUESTED THESE PROPERTIES:

LOONEY TUNES NEWS!

2662

APPROVE

SUSPEND

2664

PROPERTY INFO

Your Cost: \$7.50

MORE OPTIONS

FIG. 71

PORTABLE APPLIANCE

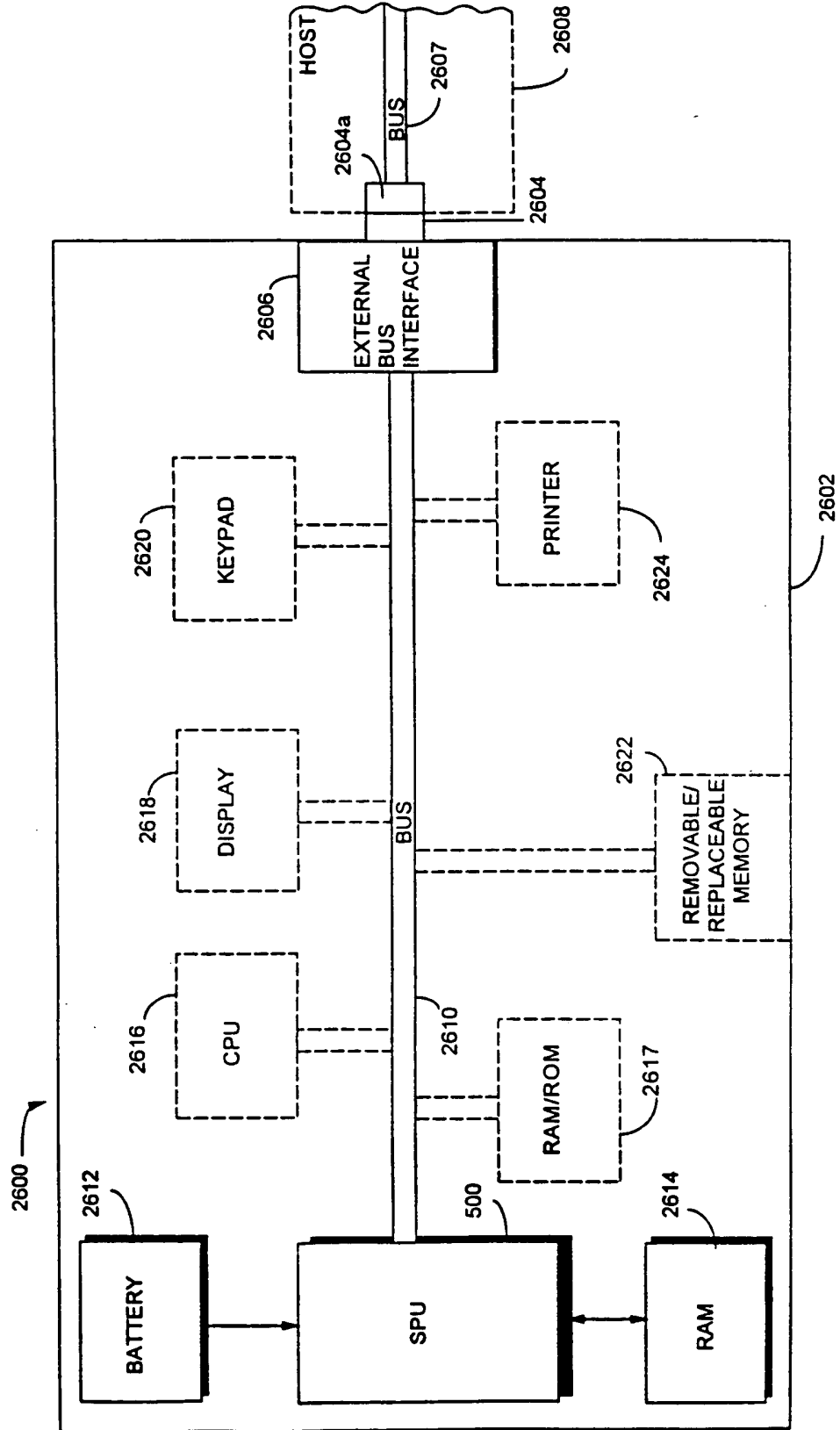



FIG. 72D



YOU HAVE REQUESTED THESE PROPERTIES:

LOONEY TUNE NEWS!

YOUR COST : \$7.50

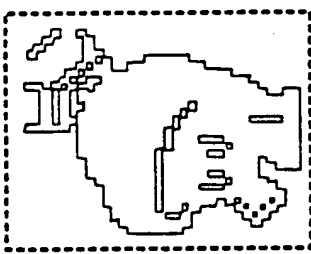
PROPERTY INFO

CANCEL

APPROVE

SUSPEND

More Options ☒ **Show Thumbnail**



PROPERTY:	SIZE:	PUBLISHER:	AMOUNT:	UNITS:	COST/UNIT:	TYPE:	USE?	LINKS:	HIST:
CHUCK JONES BIOGRA...	256KB	WARNER NEW MEDIA	64	KBYTE	\$1.25	PREVIEW	✓		●
▼ BUGS BUNNY.JPE...	1MB	WARNER NEW MEDIA	1	RECORD	\$5.00	DISPLAY	✓		●
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	10	RECORD	\$3.50	DISPLAY			●
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	25	RECORD	\$2.50	DISPLAY			●
FRIZ FRELENG BIOGRA...	256KB	WARNER NEW MEDIA	120	SECTOR	\$5.00	PRINT			
TEX AVERY BIOGRAP...	256KB	WARNER NEW MEDIA	50	PERCENT	\$2.50	COPY			
► DUCK! RABBIT! DU...	64MB	WARNER NEW MEDIA	7.0	MINUTE	\$7.50	COPY-PRO			
MEL BLANC BIOGRAPH...	256KB	WARNER NEW MEDIA	1	SPECIAL	\$25.25	INSTALL			
LOONEY TUNES DATAB...	600MB	WARNER NEW MEDIA	1	OBJECT	\$2000.00	ALL			●

SET LIMITS...

SHOW BUDGETS

ACQUIRE BUDGET...

HISTORY...

TRANSFER...

PREFERENCES...

FEEDBACK...

HELP!

FIG. 72C

SET LIMITS:

SESSION DOLLAR LIMIT: \$

TRANSACTION DOLLAR LIMIT: \$

TIME LIMIT (IN MINUTES):

UNIT LIMIT:

2666 points to the Session Dollar Limit input field.

2674 points to the OK button.

2668 points to the Transaction Dollar Limit input field.

2670 points to the Time Limit input field.

2672 points to the Unit Limit input field.

FIG. 74

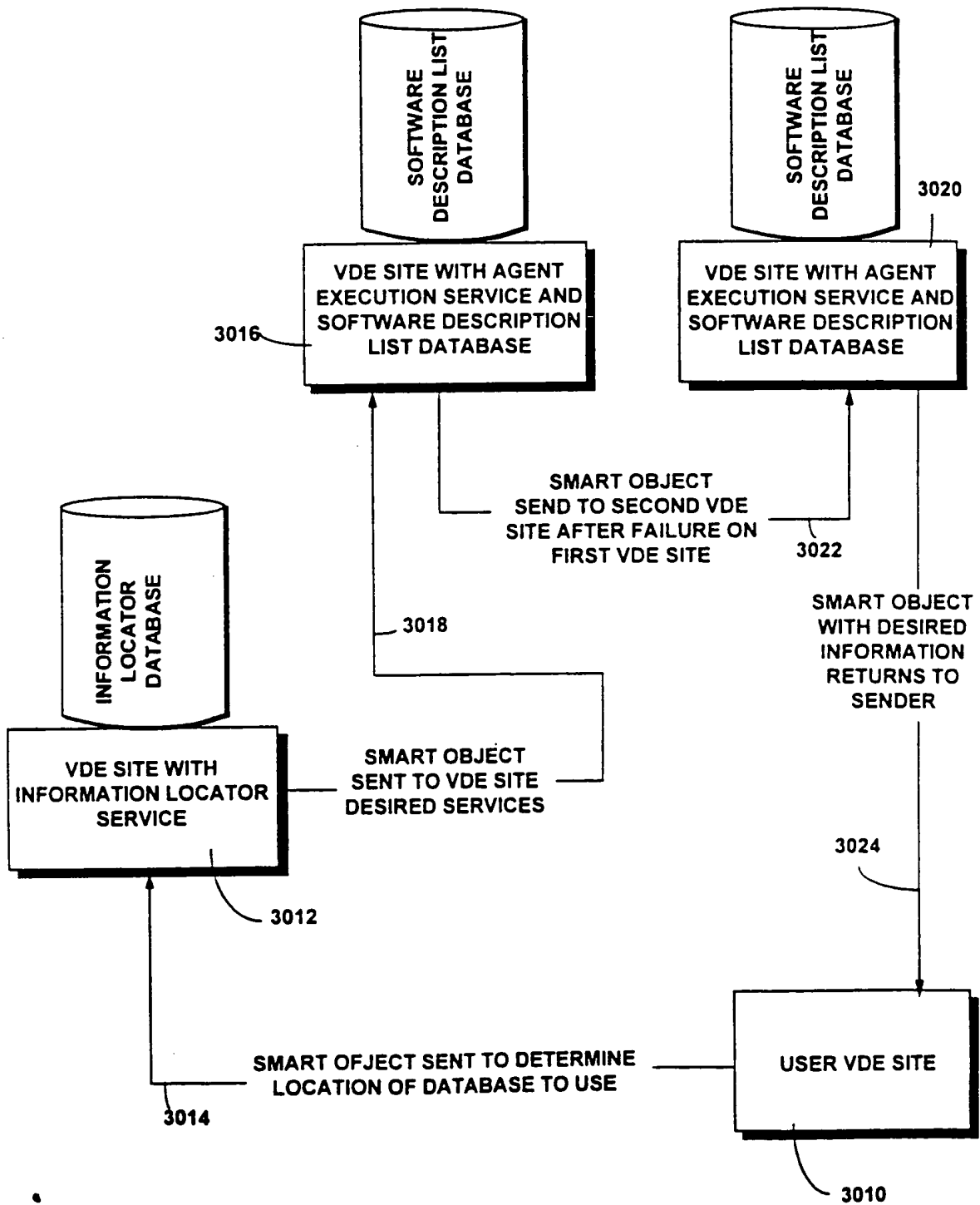


FIG. 73

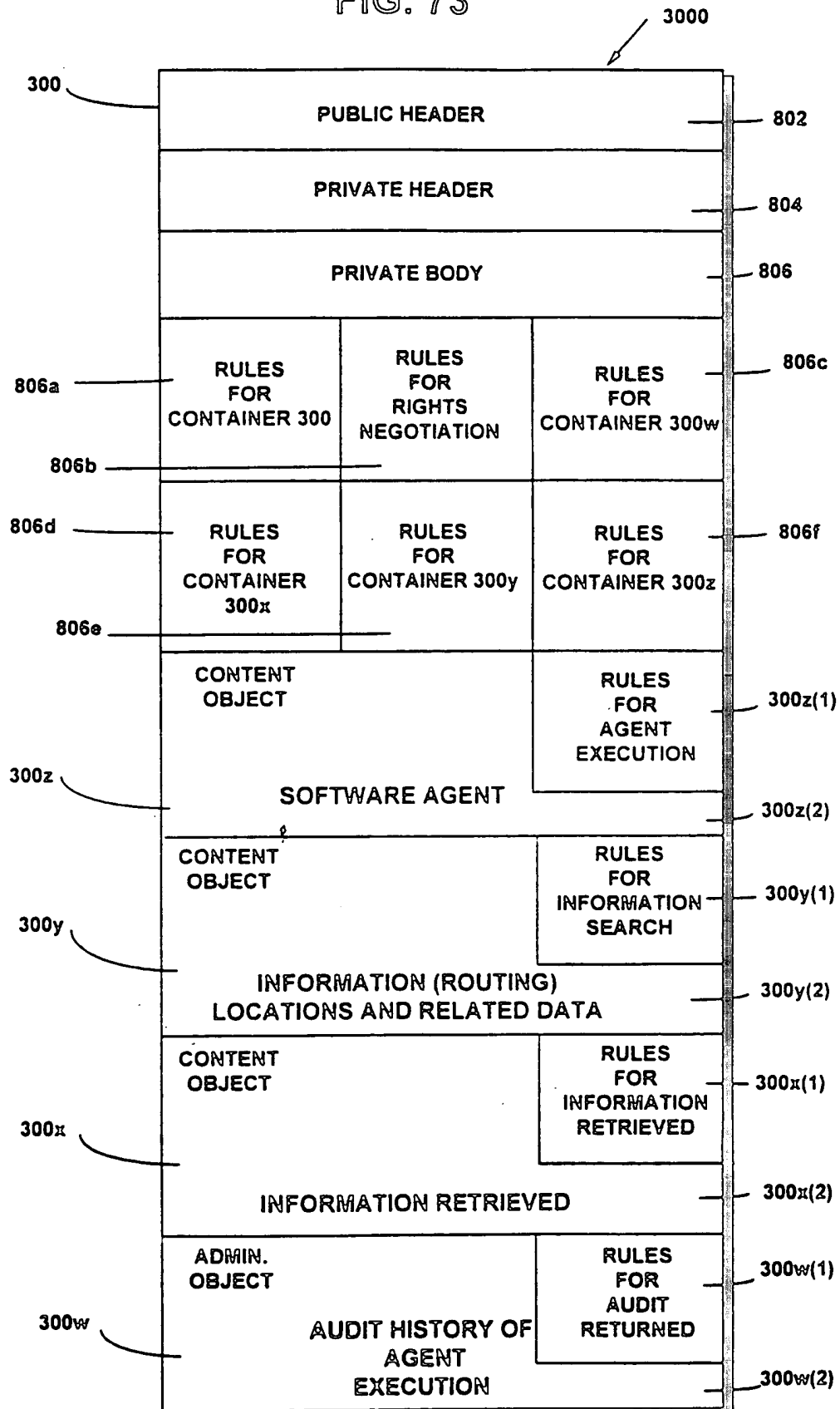


FIG. 75B

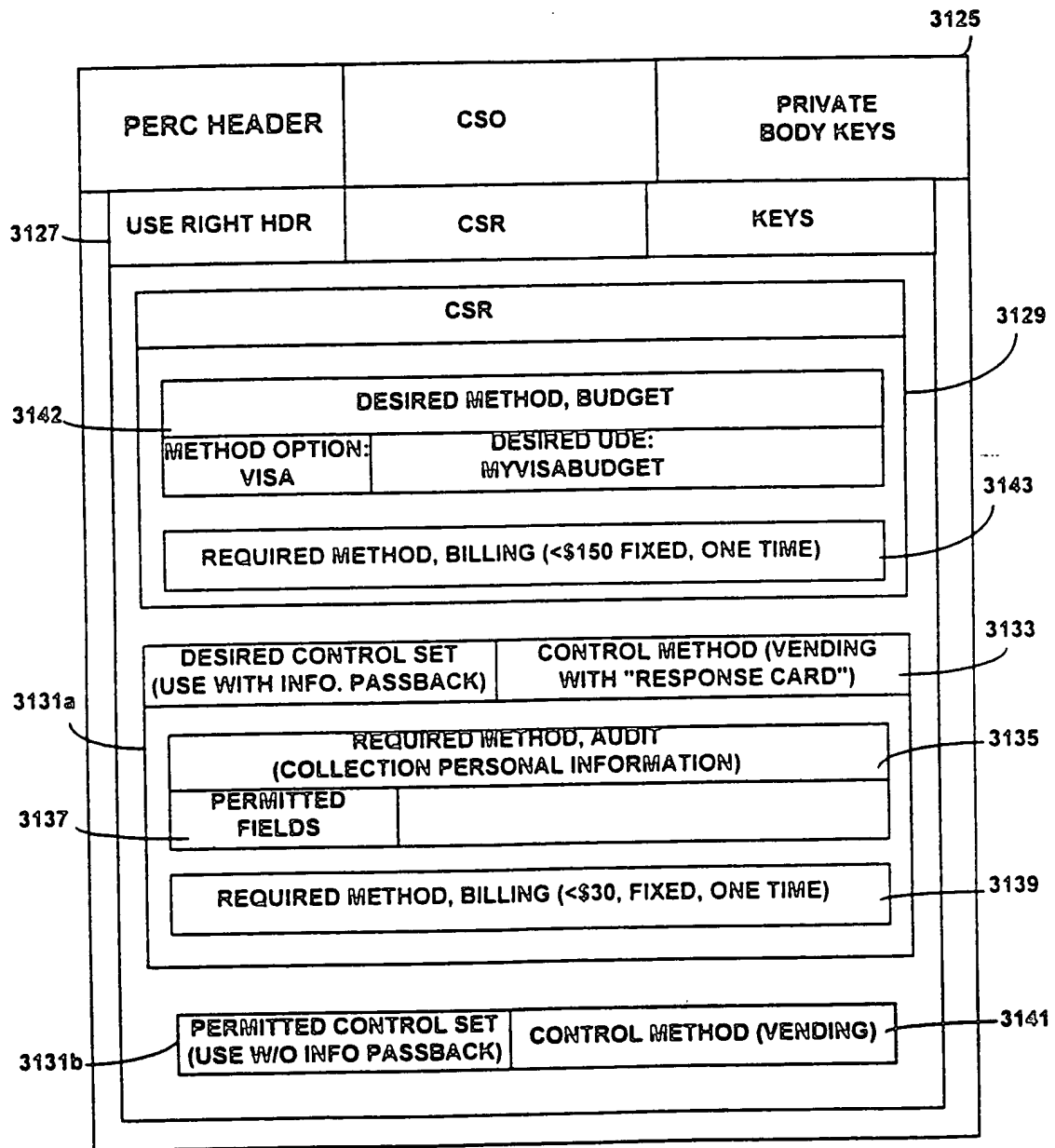


FIG. 75A

PERC HEADER		3104 CSO	3100 PRIVATE BODY KEYS
USE RIGHT HDR		3106 CSR	KEYS
PERMITTED CONTROL SET (USE W/O INFO. PASSBACK)		CONTROL METHOD (VENDING)	
REQUIRED METHOD, BUDGET			
3108 METHOD OPTION: VISA	METHOD OPTION: MASTERCARD	METHOD OPTION: AMEX	
3110 REQUIRED METHOD, BILLING (\$100 FIXED, ONE TIME)			
DESIRED CONTROL SET (USE WITH INFO. PASSBACK)		CONTROL METHOD (VENDING WITH "RESPONSE CARD")	
REQUIRED METHOD, BUDGET			
3112 METHOD OPTION: VISA	METHOD OPTION: MASTERCARD	METHOD OPTION: AMEX	
REQUIRED METHOD, AUDIT (COLLECTION PERSONAL INFORMATION)			
3114 REQUIRED FIELDS	DESIRED FIELDS		
3116 REQUIRED METHOD, BILLING (\$25 FIXED, ONE TIME)			

FIG. 75D

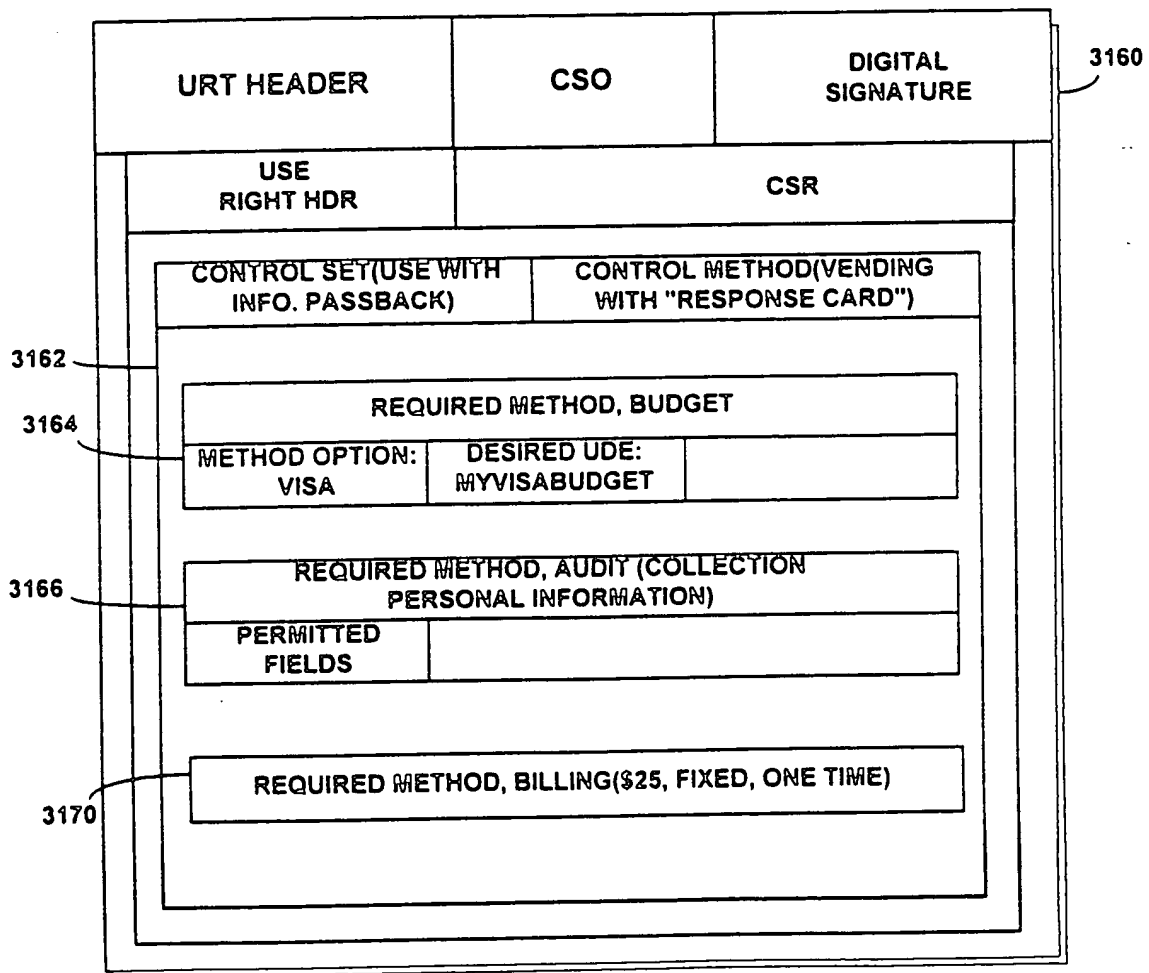


FIG. 75C

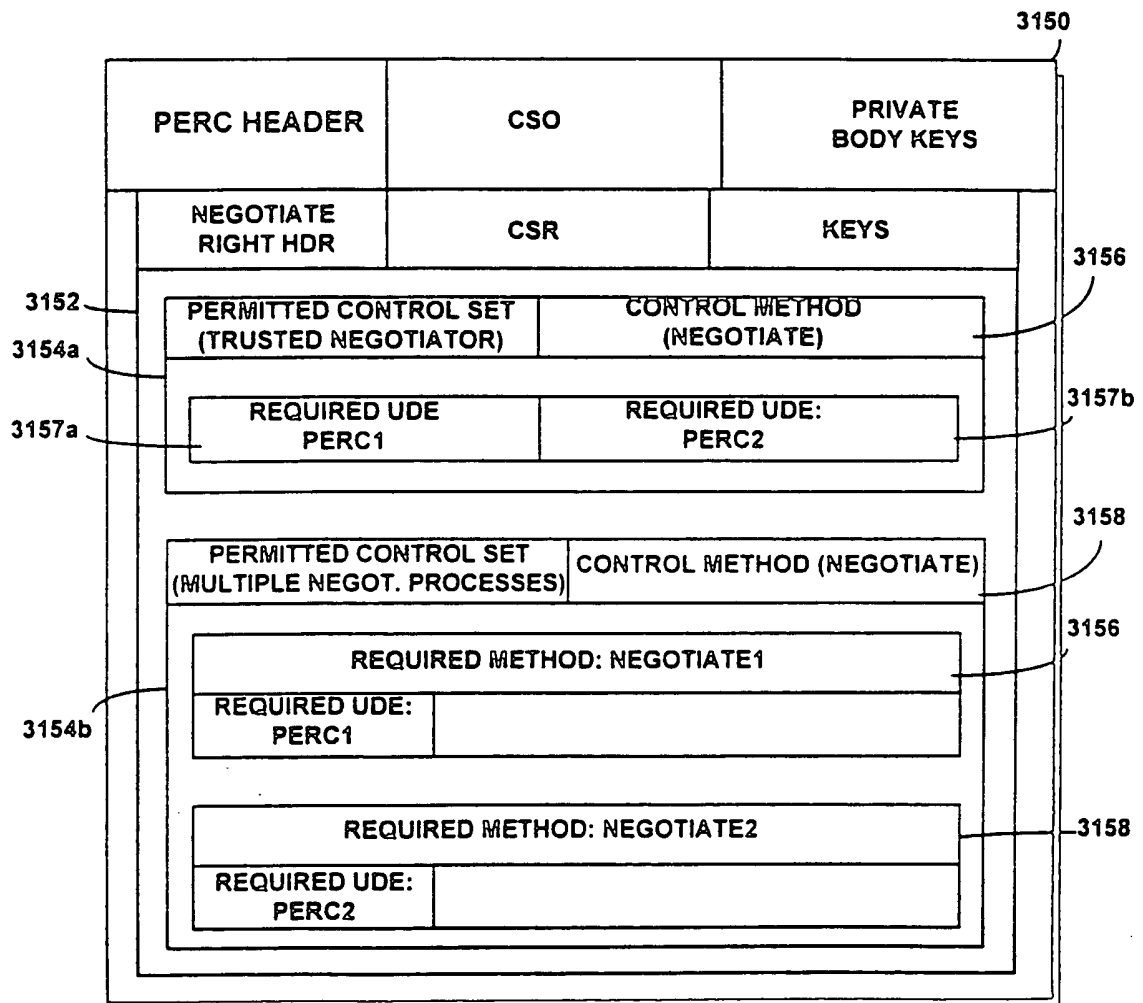
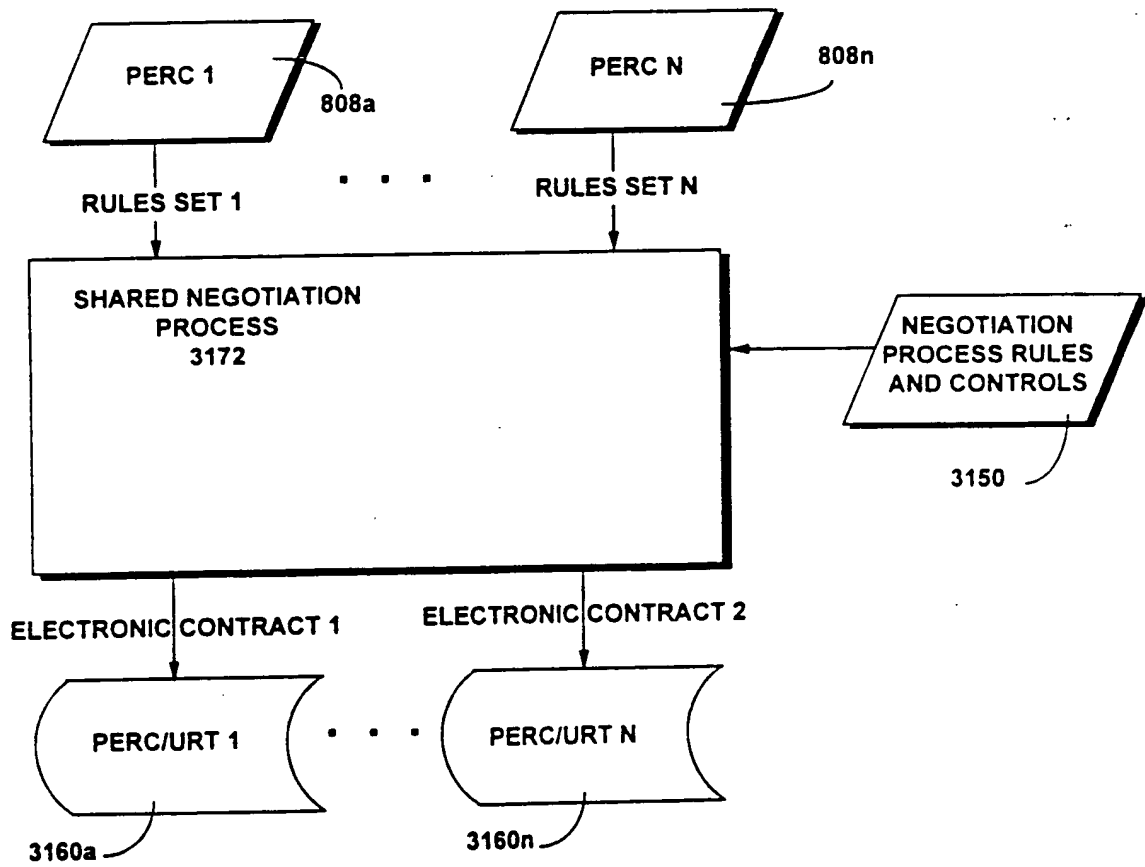


FIG. 76A



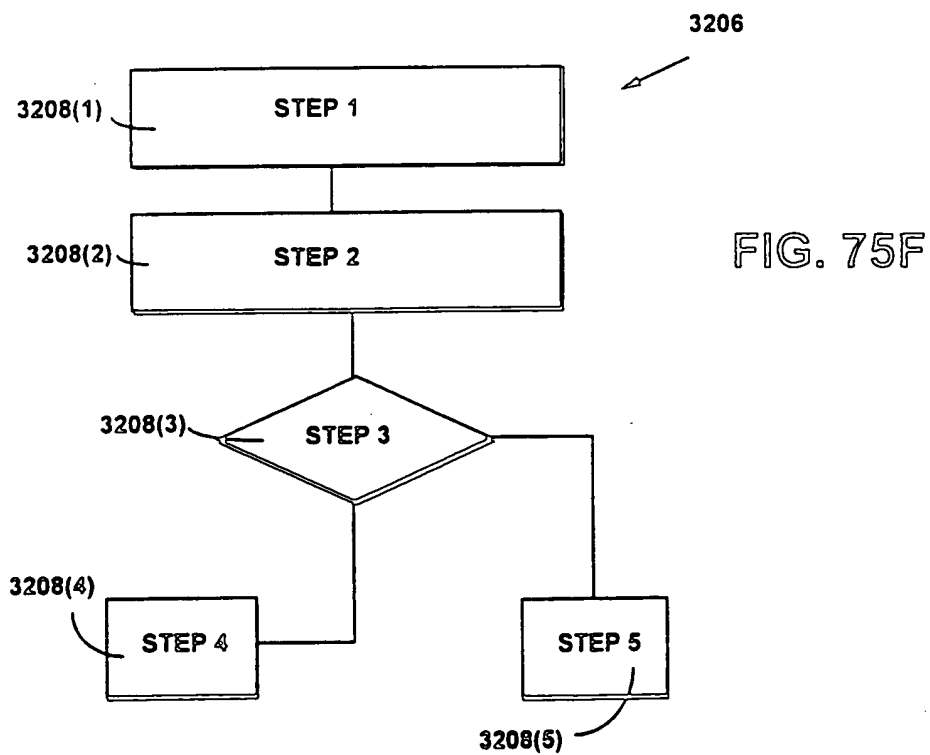
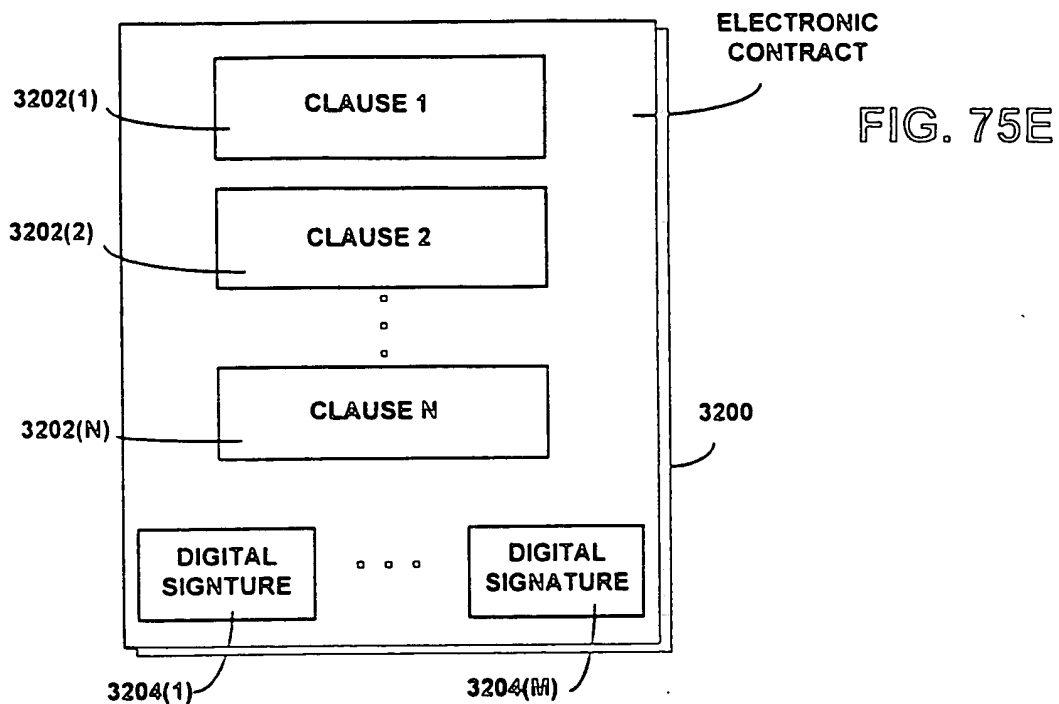


FIG. 77

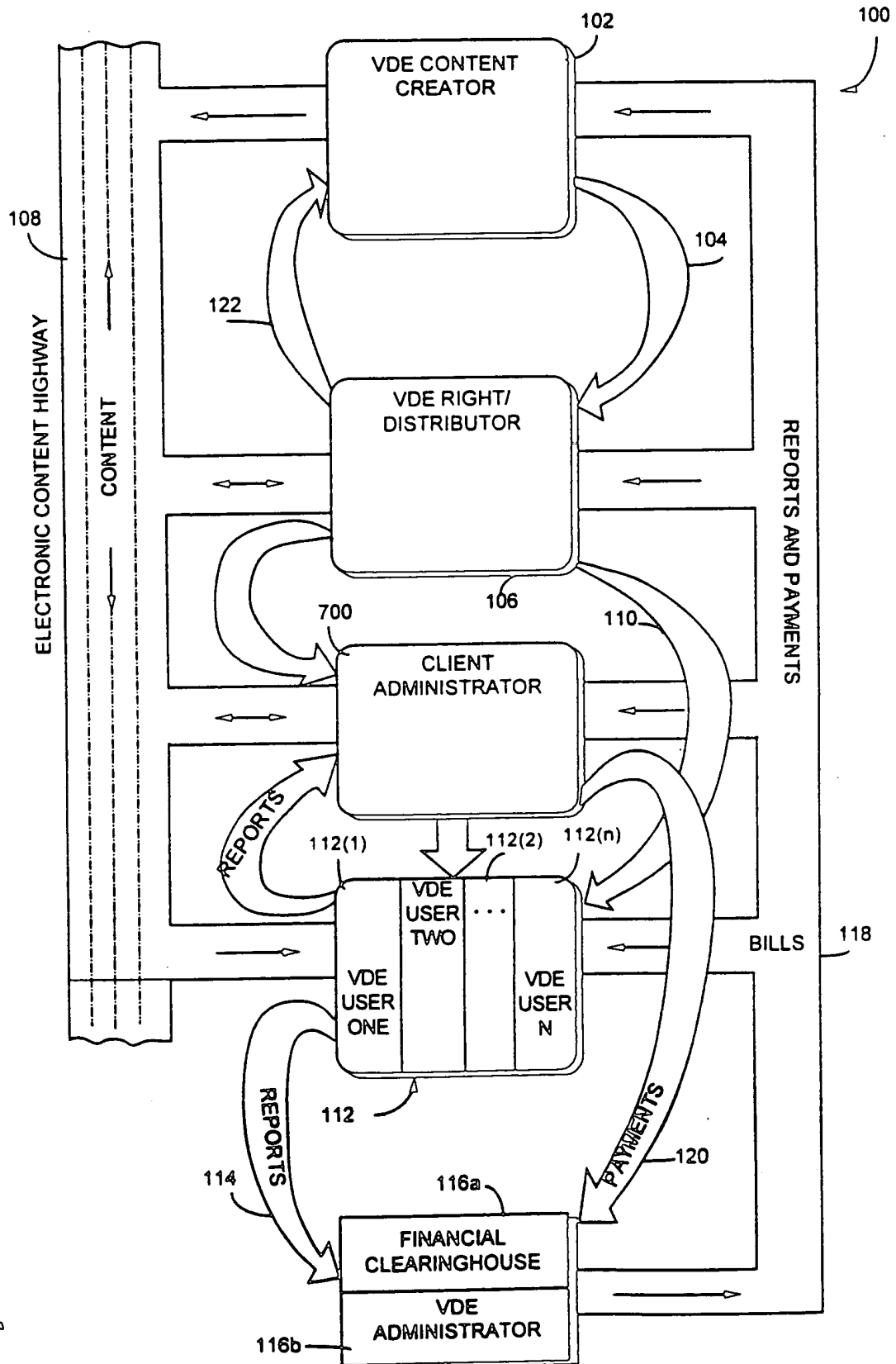


FIG. 76B

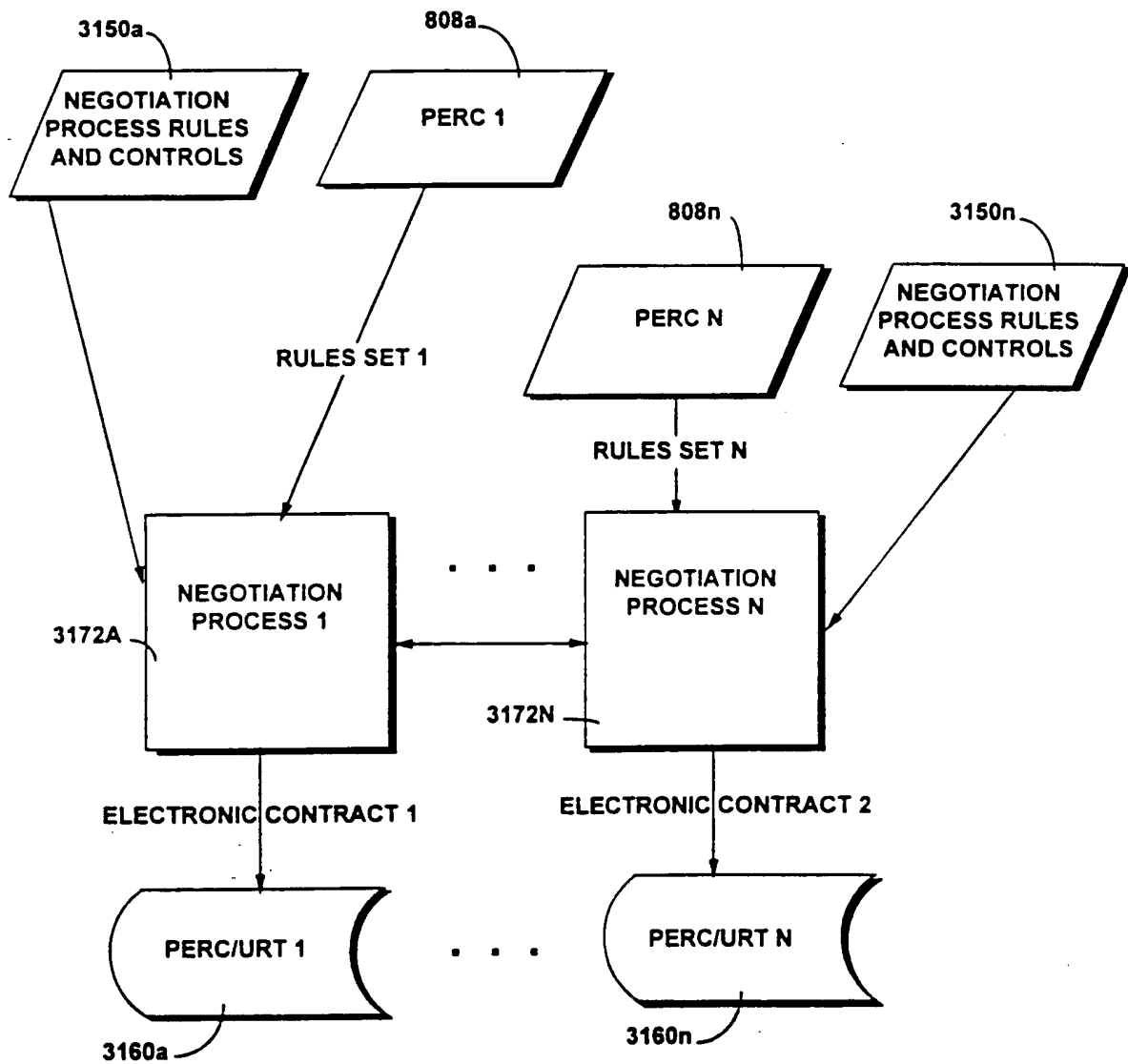
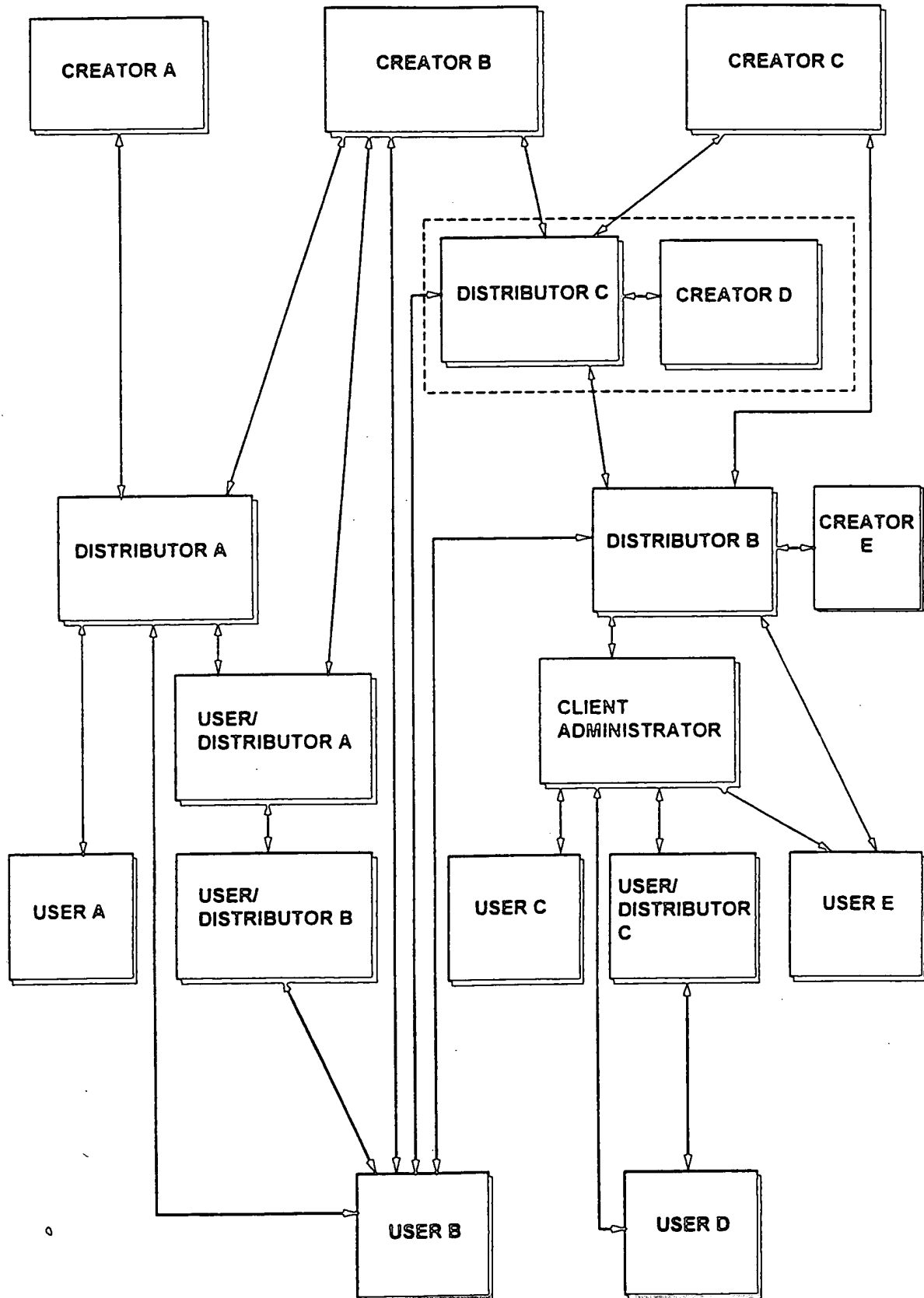


FIG. 79



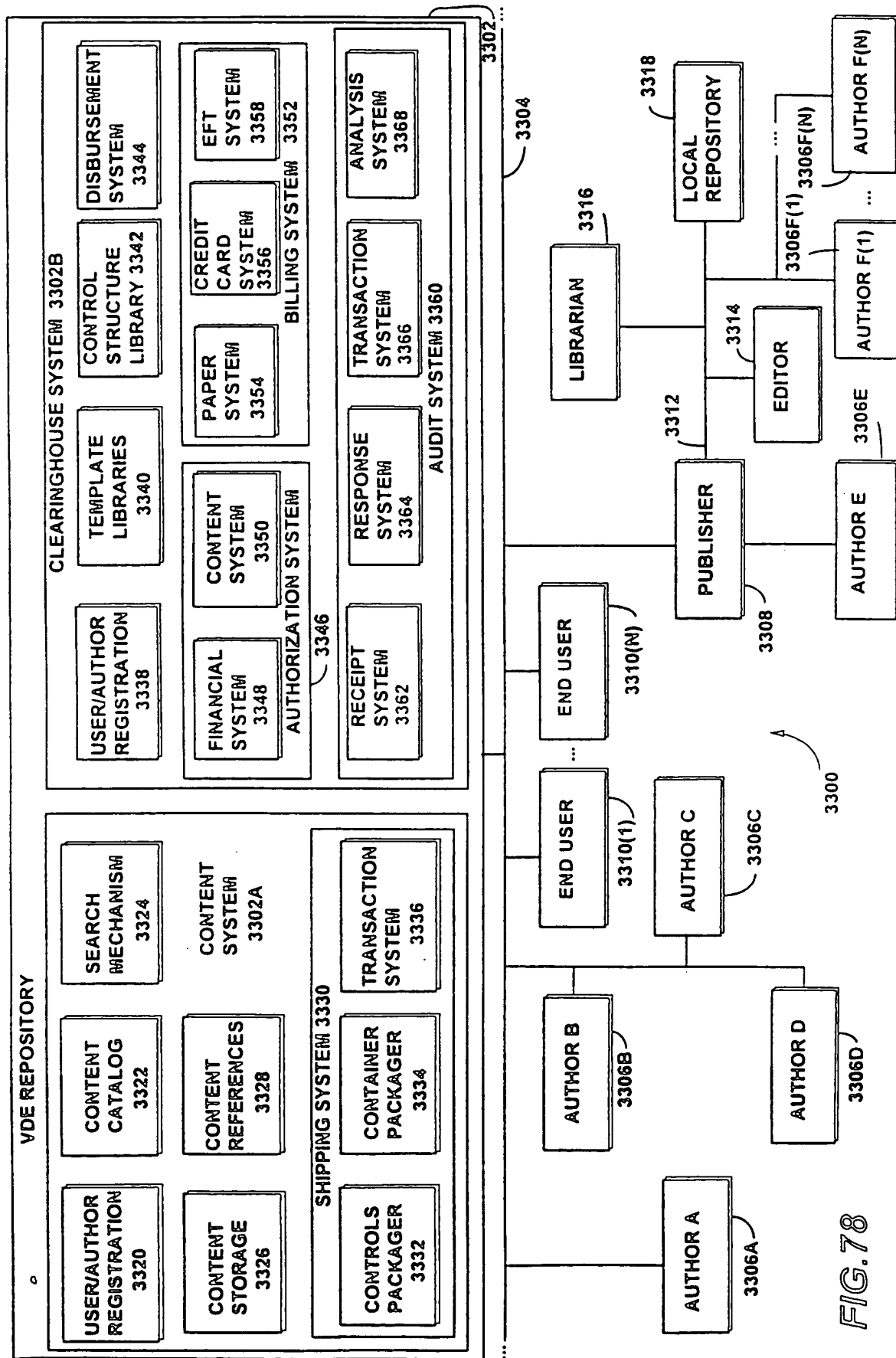


FIG. 81

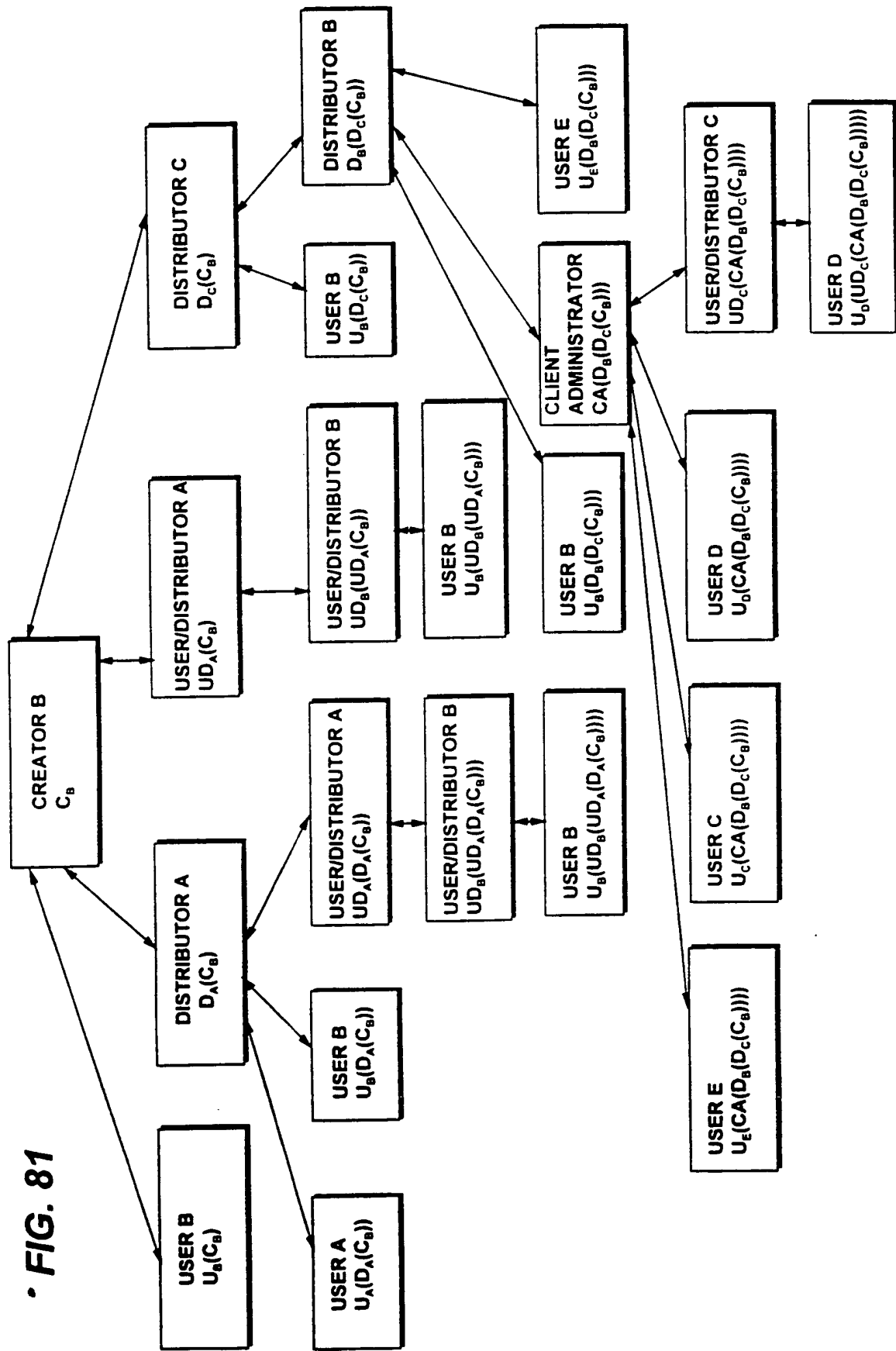


FIG. 80

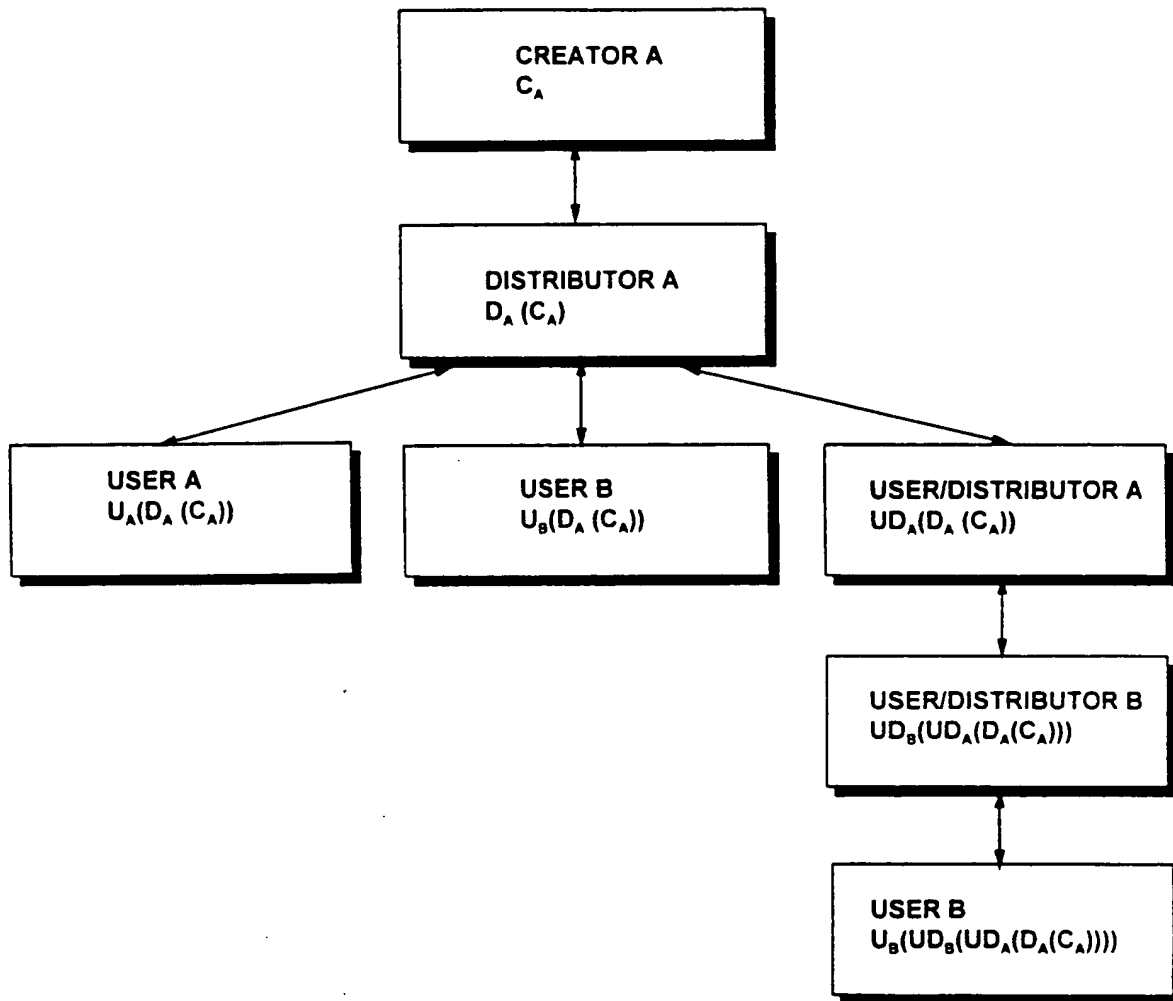


FIG. 83

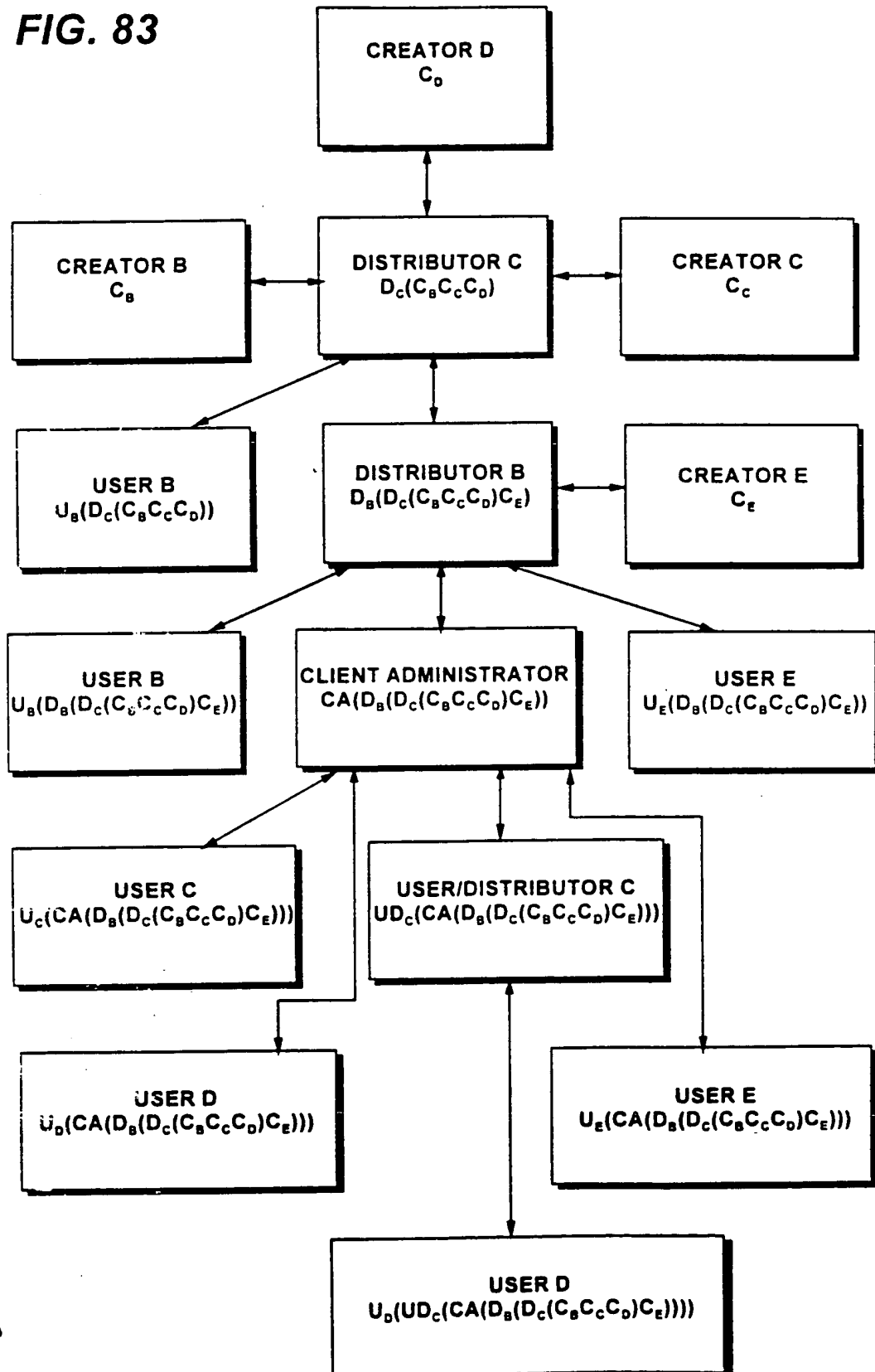


FIG. 82

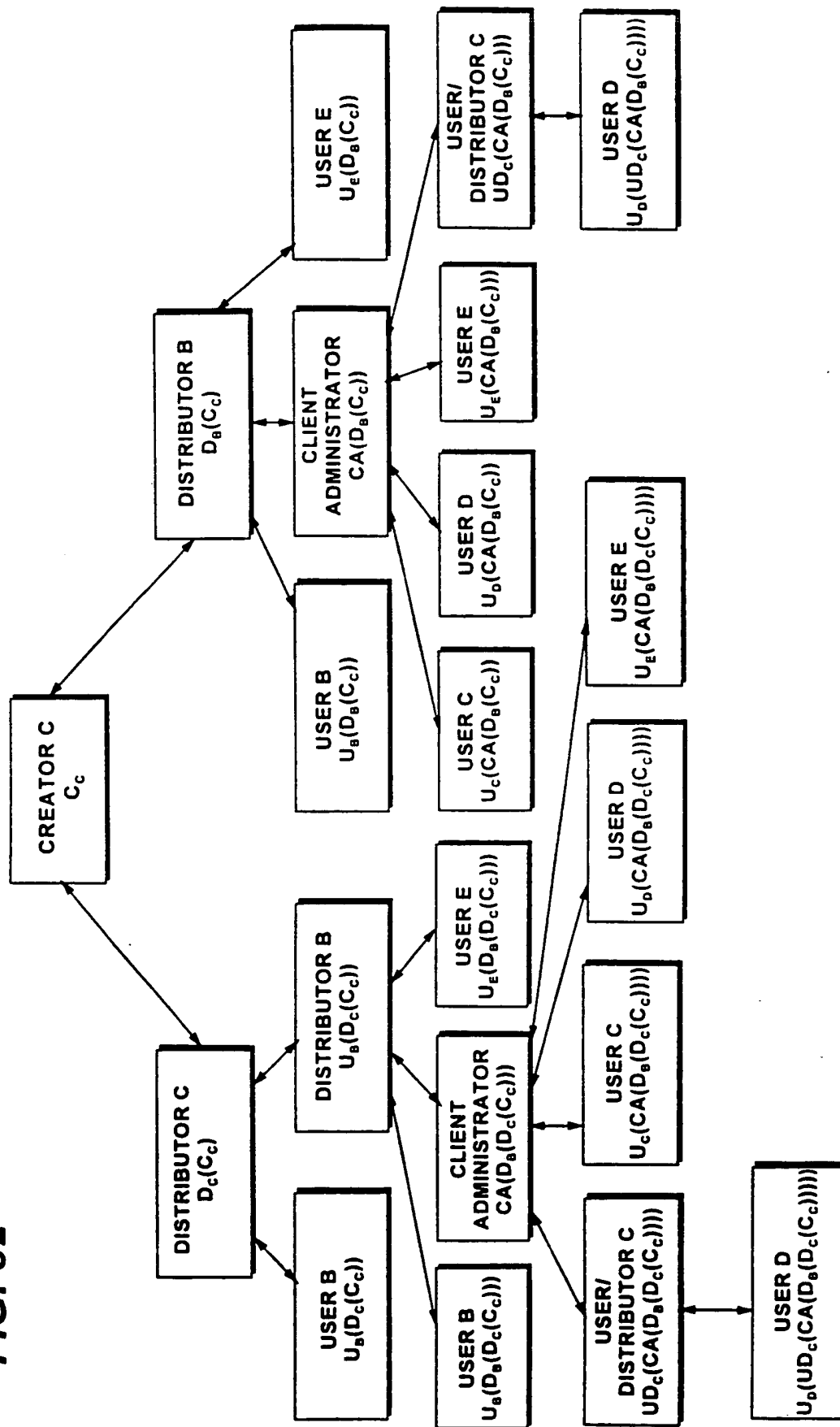


FIG. 85

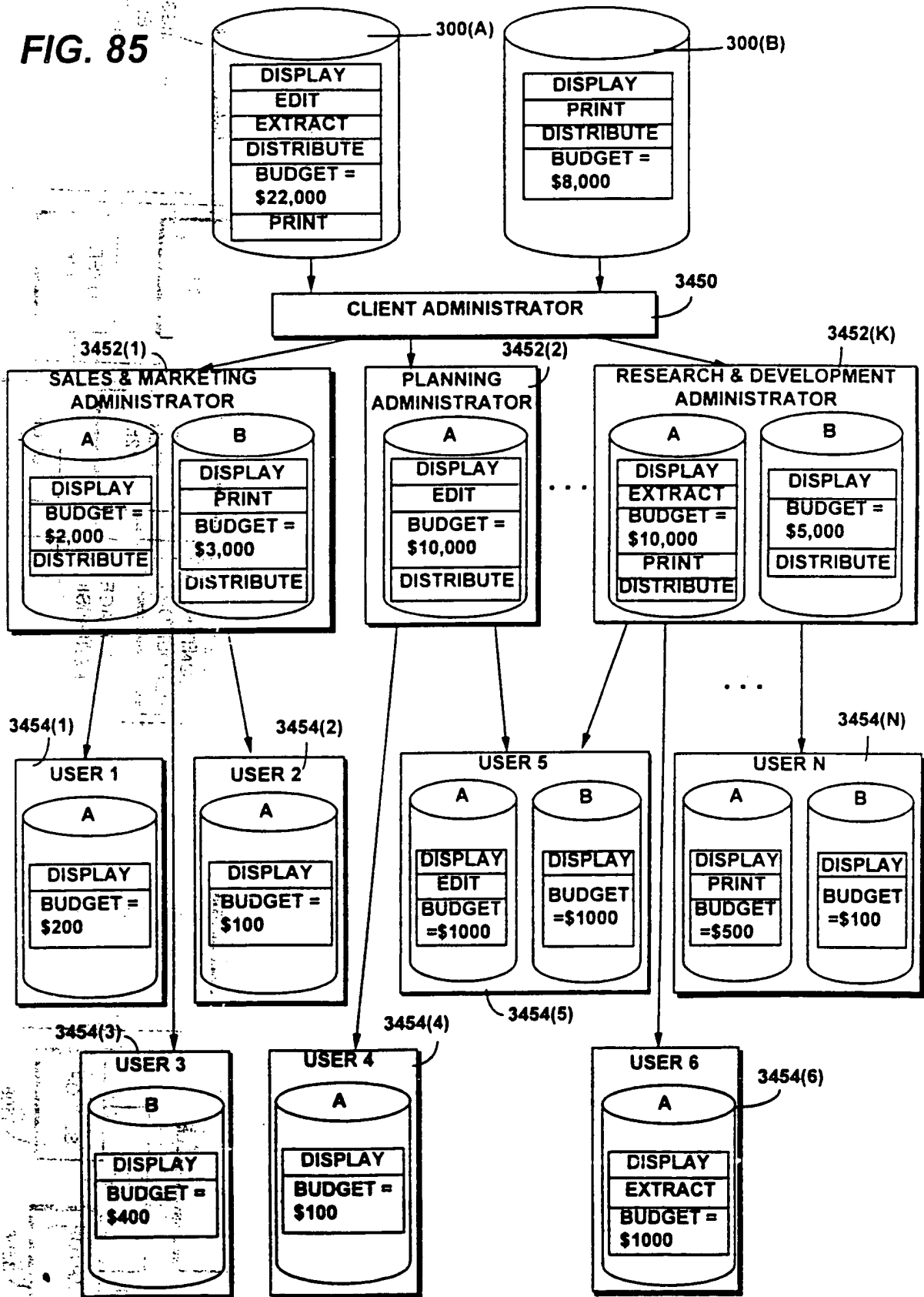
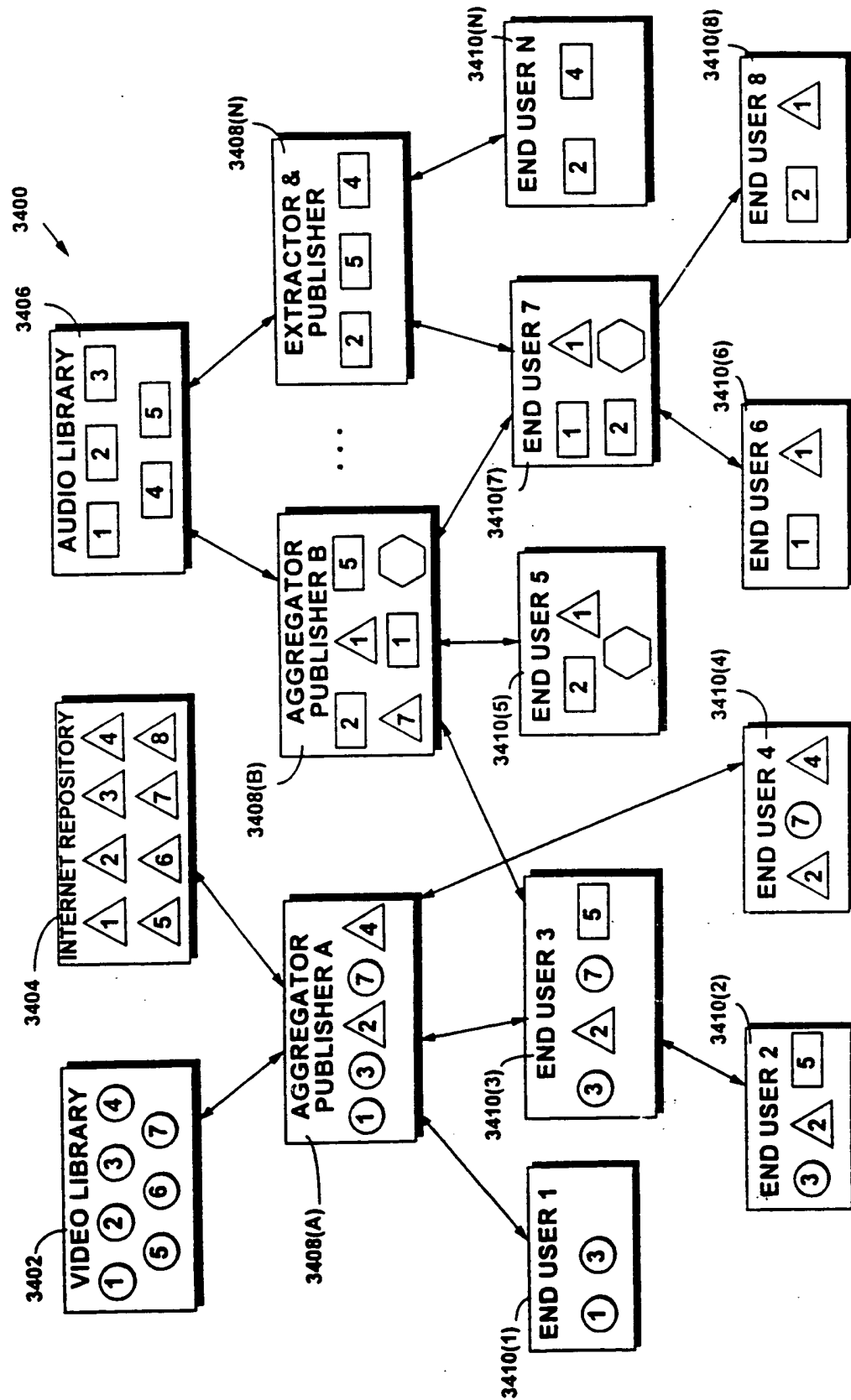


FIG. 84



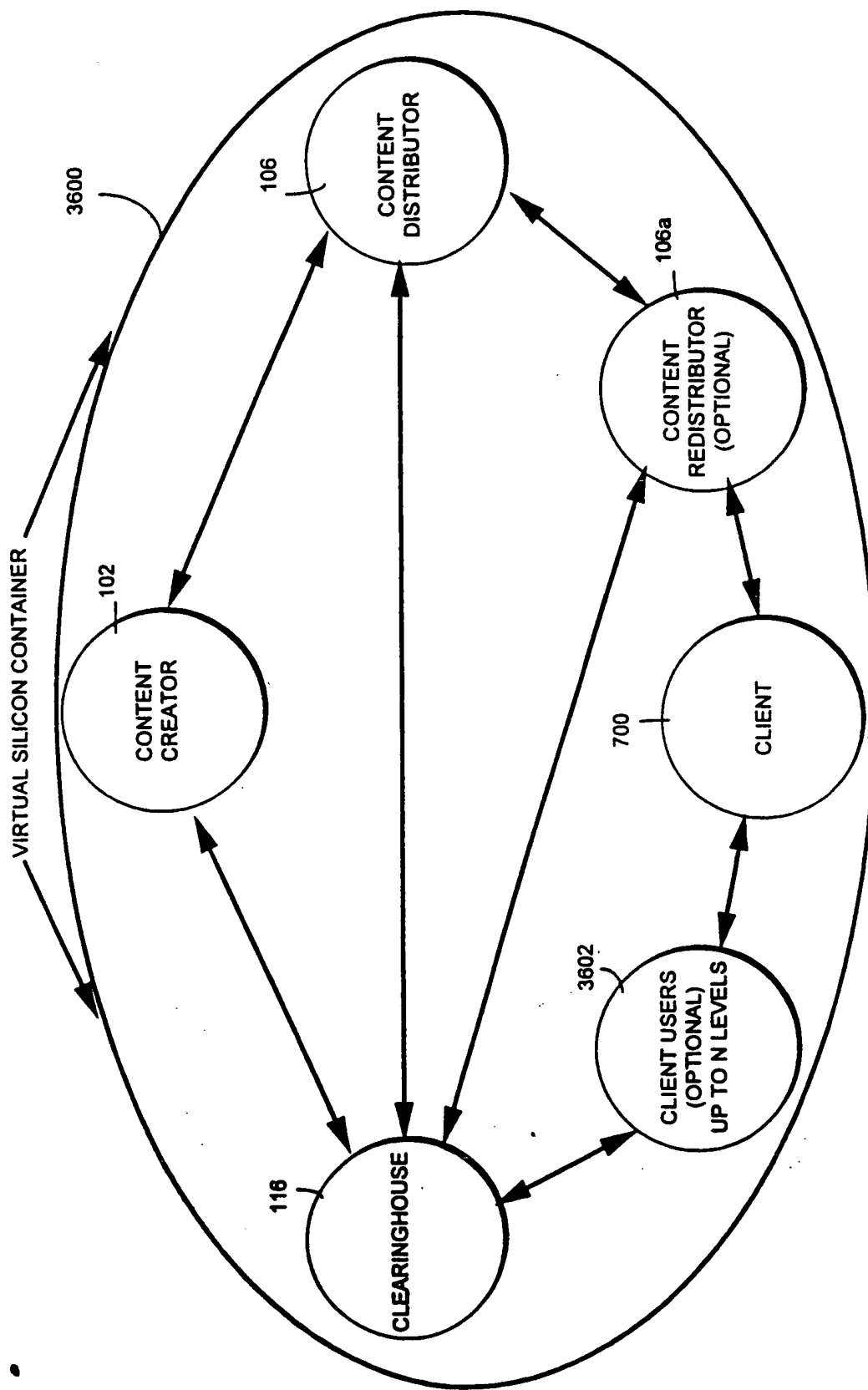


FIG. 87

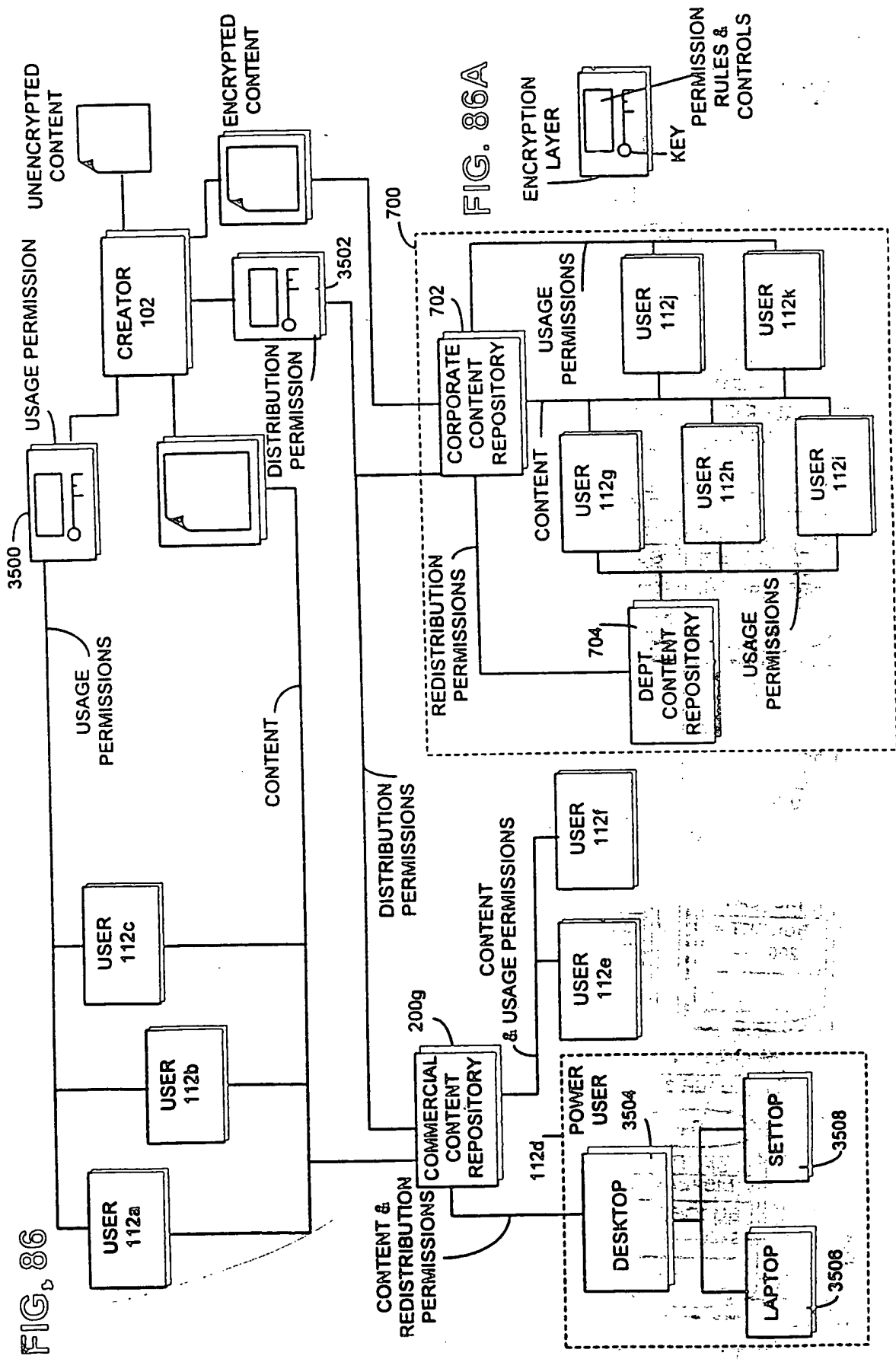


FIG. 86

FIG. 86A